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HRS Specialist

October 26, 2021

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**Subject: Final Expanded Site Inspection Report  
Norwood Landfill Site  
EPA Contract No.: 68-HE-0320-D0003  
EPA Technical Direction Document No.: T603-20-07-004  
Document Tracking No.: 0222\_Rev4**

Dear Mr. Vitello:

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting the enclosed revised Final Expanded Site Inspection (ESI) Report for the Norwood Landfill Site. The ESI report was revised in accordance with additional comments received from the EPA Toxicologist on October 18, 2021 and in accordance with discussions regarding the comments with the EPA Site Assessment Manager. This report summarizes the assessment activities conducted at the Site from September to December 2020 by Tetra Tech under EPA Contract No. 68-HE-0320-D0003 (START VI, Region 3), Technical Direction (TD) No. T603-20-07-004.

If you have any questions regarding this report, please contact me at (b) (4) (mobile), or (b) (4)

Sincerely,

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Enclosure

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**FINAL EXPANDED SITE INSPECTION REPORT**  
**NORWOOD LANDFILL SITE**  
**NORWOOD, DELAWARE COUNTY, PENNSYLVANIA**

**Revision 4**

Prepared for

**U.S. Environmental Protection Agency Region 3**  
1650 Arch Street  
Philadelphia, PA 19103



Submitted by

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**EPA Contract No. 68-HE-0320-D0003**

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## 1.0 INTRODUCTION

Under the Superfund Technical Assessment and Response Team (START) Contract No. 68-HE-0320-D003, Technical Direction (TD) No. T603-20-07-004, the U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech, Inc. (Tetra Tech) to conduct an Expanded Site Inspection (ESI) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) for the Norwood Landfill Site (the Site) located in Norwood, Delaware County, Pennsylvania (**Figure 1**).

The Norwood Landfill ESI is being conducted in accordance with EPA *Guidance for Performing Site Inspections Under CERCLA* (Reference [Ref.] 1). The purpose of this ESI is to collect sufficient information concerning the conditions at the Site to assess the relative threat posed to human health and the environment by actual or potential release of hazardous substances attributable to the Site and to determine the need for additional action under CERCLA based on criteria set forth in EPA's Hazard Ranking System (HRS) Final Rule (Ref. 2). The HRS model is a screening tool used to determine whether a Site meets the criteria requirements to be considered for the National Priorities List (NPL), which is EPA's list of Sites warranting federal interest. The scope of the ESI includes multi-media sampling and analysis and a screening level human health and ecological risk assessment.

## 2.0 SITE BACKGROUND

This section describes the Site location, presents a description of the Site, and summarizes the Site's history and characteristics.

### 2.1 SITE LOCATION AND DESCRIPTION

The Norwood Landfill Site is located in Norwood, Delaware County, Pennsylvania (**Figure 1**). The Site is located in an urban residential area within the flight path of the Philadelphia International Airport, which is located approximately 1.5 miles south-southeast. The Site is bordered by Muckinipattis Creek to the east; by the Historic Morton Morton House, and Darby Creek to the south, with the John Heinz National Wildlife Refuge beyond; and a residential area to the west (**Figure 2**). Norwood Park and Norwood Elementary School border the Site to the north-northeast and northwest. A public fishing dock is located on the Muckinipattis Creek.

The Site encompasses three areas of concern: (1) Old Norwood Dump; (2) the former Norwood Sanitary Landfill; and (3) the lower Norwood neighborhood (Winona Homes) constructed during the 1950s (**Figure**

2). The geographic coordinates of the approximate center of the Winona Homes neighborhood (Winona Homes) are 39.882156 north latitude and -75.2914 west longitude.

An area of concern that is not evaluated as part of the ESI is the former Muckinipates Wastewater Treatment Plant (WWTP). The WWTP was located to the north-northeast of the Old Norwood Dump and operated from sometime prior to 1957 until it was demolished in the early 1980s. Historically, raw sewage was deposited in a flat field adjacent to the plant. The former WWTP and adjacent sewage field are inaccessible to the public and enclosed within a locked and gated chain link fence with barbed wire. Due to the inaccessibility of this area to the public, this area was not investigated as part of this ESI as a potential human health risk.

## 2.2 SITE OWNERSHIP AND HISTORY

The majority of the Site and areas of concern are owned by the Borough of Norwood (the Borough), with the remaining areas consisting of privately owned residential properties. Based on a review of available information including historic newspaper clippings and Borough meeting minutes and historical aerial photos (**Attachment 1**), approximately 10 acres of land directly south of Norwood Park was used as an unpermitted Borough-sanctioned dump (Old Norwood Dump) from approximately 1950 to 1959. The Old Norwood Dump was used by residences in the Borough for the disposal of household waste and trash. From 1959 to 1961, the Old Norwood Dump and an additional 15 acres of land located immediately to the south of Winona Homes and along Darby Creek were used as a permitted sanitary landfill to dispose of municipal solid waste collected in the City of Philadelphia by an operator with a contract with the Borough. Several fires had reportedly occurred at the dump and subsequent landfill. The dirt roads leading to and from the landfill were periodically sprayed with oil for dust suppression and the landfill was periodically sprayed for insects and rodents. Official landfilling activities ceased in 1961, however unauthorized dumping occurred until 1963 when a final soil cover was placed on top of the landfill (Refs. 33 and 34).

In August 2016, EPA learned that several current and former residents of the Borough had sought assistance from state environmental and health agencies to investigate whether illnesses in their community could have been caused by contamination from the Old Norwood Dump and the Norwood Sanitary landfill. Specifically, residents were concerned about reports of cancer and auto-immune diseases. Additionally, residents were also concerned with the potential for disposal of material from the nearby Glenolden Laboratories (subsequently Merck, Sharp, and Dohme Pharmaceutical Laboratories), as well as other unregulated and unpermitted dumping in and on the landfills over time.

Another concern reported by a resident is the alleged use of fill in Winona Homes from an unknown source. Allegedly the fill was generated during the construction activities of the Walt Whitman bridge in Philadelphia, Pennsylvania. The areas beneath the Walt Whitman bridge on the north side, became the Publicker Superfund Site and therefore residents became concerned that if fill material from the bridge construction was transported to Norwood, that the soil could have been impacted by contaminants at that Site. Additionally, areas on and around the approach to the Walt Whitman bridge prior to its construction were historically known to be landfill, raising concern the soil was impacted by unknown hazardous substances. Because the origin of the fill material has not been confirmed, there is a potential it may contain hazardous substances.

### 2.3 PREVIOUS INVESTIGATIONS

In 1993, the U.S. Fish and Wildlife Service (USFWS) conducted a Level I Contamination Survey (a non-sampling property evaluation) on land located between the residential neighborhoods, including Winona Homes, and Darby Creek as part of a potential property purchase associated with the John Heinz National Wildlife Refuge. The Level I Contamination Survey noted debris was scattered across a portion of one of the parcels. Observed debris included glass jars and bottles, automobile frames and parts, aluminum siding, asphalt, concrete, and tires. USFWS determined that one of the surveyed parcels included areas of the former Norwood Sanitary Landfill (Ref. 3). The other parcel, to the west of the landfill, is privately owned by the Darby Realty Company and consists primarily of tidal wetlands. No prior use of this parcel was identified by USFWS (Ref. 3).

In 1999, the USFWS conducted a Level II Survey (a sampling evaluation) of the parcels, during which test pits were excavated and samples of soil (21 shallow and 17 deep), sediment (7), surface water (6), and groundwater (10) were collected (Ref. 3). No background samples were collected as part of the investigation. Because the sample analytical results from this investigation are over 20 years old, the analytical results do not reflect current conditions of the Site. Therefore, an in-depth discussion of the analytical results is not presented. The investigation is summarized to provide a complete investigative history of the Site. Samples were analyzed for target compound list (TCL) volatile organic compounds (VOC), TCL semivolatile organic compounds (SVOC), TCL pesticides, polychlorinated biphenyls (PCB), chlorinated herbicides, target analyte list (TAL) metals (total and dissolved for groundwater samples), and cyanide. Analytical results were compared to EPA's Region 3 Risk-Based Concentrations (RBCs), which are now known as Regional Screening Levels (RSLs) for soils (residential and industrial), sediment, groundwater (tap water) and surface water.



The Level II Survey indicated VOCs were not detected in any of the soil, sediment, or surface water samples above RBCs. One VOC (chloroform) was detected above the RBC in one groundwater sample. Several SVOCs were detected above RBCs in the soil, sediment, and groundwater samples, and in one surface water sample. Pesticides were not detected above RBCs in the surface water or sediment samples; however, one pesticide (chlordane) was detected above the RBC in one of the soil samples. Concentrations of PCBs were detected above RBCs in several soil samples, but did not exceed RBCs in the sediment, surface water, or groundwater samples. Manganese was the only TAL metal that exceeded RBCs in the surface water samples; however, several inorganic analytes were detected above RBCs in the soil, sediment, and groundwater samples (Ref. 3).

The Level II Survey identified several constituents that were detected in all media at concentrations that exceeded the screening levels used for comparison purposes. However, it was noted that many of the constituents could be related to natural conditions in the area; the impacts from runoff from nearby properties and streets; and/or from nonhazardous materials previously disposed of on the property. Considering the anticipated land use and infrequent transient visitors, it was determined that concentrations of constituents found may not be expected to have a negative impact to human health (Ref. 3).

In August 2016, EPA received complaints from concerned citizens within Winona Homes regarding the historical use of the nearby and adjacent Norwood Sanitary Landfill, as well as the use of potentially contaminated soil used as fill during construction of the housing development. Residents requested that EPA conduct an investigation to determine whether hazardous substances may be present on the Site (Ref. 4).

In September 2017, EPA conducted a CERCLA Site Inspection (SI) of the Norwood Landfill Site. As part of the SI, 20 surface (0- to 6-inches below ground surface [bgs]) soil and nine subsurface (24- to 48-inches bgs) soil samples, including one duplicate surface soil sample, two background surface soil samples, and one background subsurface soil sample were collected. Soil samples were collected from non-residential areas including the right-of-way between the homes along E. Winona Avenue and W. Martin Lane and throughout the wooded area south of Winona Homes adjacent to Darby Creek (**Appendix D, Figure 3**). Samples were not collected from residential properties as part of this sampling event. Surface soil samples were collected directly behind Winona Homes to determine whether fill material used during the construction of the neighborhood may have contained contaminants at concentrations that may pose a risk to human health. The subsurface soil samples were collected to determine whether landfill material was present below the surface in the area directly behind Winona Homes. Debris and/or landfill material was generally not observed in the subsurface soil samples, with the exception of glass debris at one location (Ref. 5).

Analytical results for six surface soil samples indicated VOCs, primarily acetone and methylene chloride, were detected at concentrations above background. However, they did not exceed applicable EPA RSLs for residential soil. Surface soil samples contained low levels of SVOCs, which is expected as there are many sources of SVOCs in urban areas such as asphalt and automobile fluids and emissions. Proximity of the neighborhood to Interstate I-95 and the flight path of airplanes at Philadelphia International Airport may also contribute to aerial deposition of SVOCs. In the Winona Homes neighborhood, many houses have asphalt shingle roofs in front and flat built-up roofs at the rear, which typically consists of asphalt and coal tar that can cause SVOCs to run off via downspouts into the yard. Most driveways in the neighborhood are asphalt, some of which are seal coated containing components like bitumen (another source of SVOCs) and slope towards backyards. Additionally, backyards were observed with outdoor grills and firepits, which are a source of SVOCs through the burning of charcoal and wood that can deposit ash onto the ground surface. The following constituents were detected in surface soil at concentrations above background and applicable EPA RSLs: benzo(a)anthracene in two samples; benzo(b)fluoranthene, benzo(a)pyrene, and indeno(1,2,3 cd)pyrene in one sample; PCBs in two samples; the pesticide dieldrin in one sample; and metals cobalt and manganese in one sample. Analytical summary tables for the sampling event are provided in **Appendix D, Tables 1 through 6**.

Two subsurface soil samples contained VOCs at concentrations above background but below applicable EPA RSLs for residential soil. The following constituents were detected in subsurface soil samples at concentrations above background and at or above applicable EPA RSLs: benzo(a)pyrene in five samples; dibenzo(a,h)anthracene in three samples; the pesticides dieldrin and aldrin in one sample; manganese in one sample; and lead in two samples. PCBs were not detected at elevated concentrations in the subsurface soil samples. Low levels of pesticides were detected in the majority of the subsurface soil samples below EPA RSLs (Ref. 5).

In Spring of 2018, EPA mailed letters to approximately 37 residences along E. Winona Avenue, as well as to residents living along Essex Road, Love Lane, Martin Lane, and Mohawk Avenue who expressed interest in having their property sampled. EPA gained access to 21 residential properties to collect soil samples. In May 2018, EPA collected 23 surface soil (0- to 12-inches bgs) samples from the 21 residential properties, including two duplicate soil samples (Ref. 5) (**Appendix D, Figure 3**).

Analytical results of the residential surface soil samples indicated that VOCs in nine samples were detected at concentrations above background but not exceeding EPA RSLs for residential soil. The following SVOCs were detected in surface soil at concentrations above background and at or above applicable EPA RSLs: benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene in three samples;

PCBs in one sample; the pesticide dieldrin in one sample; and metals antimony and lead in one sample (Ref. 5). Analytical summary tables for the sampling event are provided in **Appendix D Tables 7 through 9**.

In August 2019, EPA received additional information from a concerned resident about areas in Lower Norwood that were not sampled or evaluated but they believed were subject to historic landfilling or placement of contaminated soil. EPA reviewed the information and verified that an approximate 10-acre area located immediately east of Norwood Park was used as an unregulated town dump for at least a 10-year period of time in the 1950's. EPA then determined additional sampling was necessary in this newly identified area to ensure a complete and thorough assessment of all areas where members of the public could potentially come in contact with unknown hazardous substances and to determine whether a release of hazardous substance from the Dump had impacted the adjacent Muckinipattis Creek. EPA also pledged to concerned residents that it would undertake a larger residential soil sampling effort and attempt to fill any other data gaps by sampling various media and locations throughout Lower Norwood in effort to determine over a larger area whether Winona Homes was built on contaminated soil.

Delayed by the COVID-19 pandemic, EPA postponed the planned first quarter of 2020 sampling until September 2020, completing all ESI activities the first week of December 2020.

## 2.4 SITE CHARACTERISTICS

This section describes the Site's physical characteristics such as geography, proximity to surface water, soils and geology underlying the Site, groundwater and hydrogeology, and the meteorological conditions at the Site.

### 2.4.1 Physical Geography

The Site is located in the Lowland and Intermediate Upland Section of the Atlantic Coastal Plain Physiographic Province, which is characterized by a flat upper terrace surface underlain by unconsolidated to poorly consolidated sand and gravel with dendritic drainage patterns (Ref. 6). As shown on **Figure 1**, topography in the vicinity of the Site is generally flat-lying or gently sloping to the south toward Darby Creek.

### 2.4.2 Surface Water

The Site is bordered by Muckinipattis Creek to the east, which flows into Darby Creek at the southeast corner of the Site; and by Darby Creek to the south, which flows for approximately 2.25 miles to the west/southwest

before converging with the Delaware River. The Site is situated in the Darby Creek watershed and is part of the Delaware River Basin (Ref. 7). Both Darby Creek and Muckinipattis Creek are tidally influenced in the vicinity of the Site (Ref. 7). Portions of the Site consist of fully developed urban properties surrounded by undeveloped areas that are overgrown with brush and trees. Surface water runoff in the developed portions of the Site most likely flows to storm drains along E. Winona Avenue and Essex Road. The ground surface is relatively flat near the Site; surface water runoff in the undeveloped portions of the Site would most likely percolate into the ground or run off into Darby Creek to the south or Muckinipattis Creek to the east. The southern portion of the Site lies within a 100-year flood zone (Ref. 8).

### **2.4.3 Geology**

The Site is located in the Lowland and Intermediate Upland Section of the Atlantic Coastal Plain Physiographic Province, which is characterized by a flat upper terrace surface (Ref. 6). The Site is underlain by the Quaternary Age unconsolidated deposits classified as Trenton gravel, which consists of gray or pale-reddish-brown, gravelly sand interstratified with cross bedded sand and clay/silt beds. The unit also includes areas of alluvium and swamp deposits. The Trenton gravel deposits are generally less than 20 feet thick; however, the unit may be as thick as 50 feet locally (Ref. 9).

In the vicinity of the Site, the Wissahickon Formation underlies the Trenton gravel deposits. The Wissahickon Formation consists of dark to light gray, well-foliated schist and gneiss, having some quartz and feldspar-rich layers (Ref. 9). The Wissahickon Formation was originally sediment of variable thickness and composition. The original sediments have been completely recrystallized by metamorphism. The formation is highly variable in composition and degree of metamorphism. Its thickness is estimated to be 5,000 to 8,000 feet (Ref. 9).

### **2.4.4 Soils**

A majority of the soil in the vicinity of the Site is characterized as Made Land - gravelly material, which is composed primarily of udorthents, shale, and sandstone, and is classified as well drained with moderately low to high capacity to transmit water (Ref. 10).

Soil characterized as tidal marsh is located in the southern portion of the Site. Tidal marsh consists of Chicone and similar soils and is classified as very poorly drained with moderately high to high capacity to transmit water (Ref. 10)

### 2.4.5 Groundwater and Hydrogeology

Groundwater flow in the Atlantic Coastal Plain Physiographic Province is through intergranular (i.e., primary) openings, under either unconfined or confined aquifer conditions (Ref. 11). The depth to groundwater ranges from 0.1- to 15-feet bgs at the Site and is encountered in the unconsolidated deposits of the Trenton gravel. This shallow depth to water is related to the proximity of the Trenton gravel to the Delaware River, which is interconnected with the Trenton gravel water table. The water table in Delaware County near the Delaware River estuary fluctuates in response to tides. The amplitude of these fluctuations decreases with distance from the estuary. Tidal effects are most pronounced in the Trenton gravel, which can transmit gradient changes over long distances because of high hydraulic conductivity (Ref. 9). For the purposes of this ESI, it is assumed that the Delaware River is a hydrologic boundary.

The Trenton gravel is discontinuous in extent and variable in depth and poorly sorted. The wide range in grain size causes the hydrologic properties to vary considerably. In many areas, the deposits are too thin to yield much water to wells over a sustained period, but they do provide temporary storage of water that recharges the underlying units. Measured specific capacities of wells in the Trenton gravel range from 1.3 to 2.6 gallons per minute per foot (gpm/ft) (Ref. 9).

Underlying the Trenton gravel is the Wissahickon Formation, which is the most productive of the water-bearing rock units in Delaware County. Water is present in joint planes and locally in fault planes. Groundwater occurs mainly in the weathered zone above bedrock and in bedrock fractures to depths of about 300-feet bgs. The reported depths of wells in the Wissahickon Formation range from 43- to 675-feet bgs; the median is 187-feet bgs. The specific capacities of wells in the Wissahickon Formation range from 0.004 to 2.9 gpm/ft., and the median is 0.2 gpm/ft. Most of the water-bearing zones are penetrated within 300-feet bgs (Ref. 9).

### 2.4.6 Meteorology

The National Weather Service annual climatological report for Mount Holly, New Jersey (closest station to Site) shows a mean annual temperature of 58 degrees Fahrenheit (°F) (Ref. 12). The Philadelphia area has an average annual precipitation of 41.53 inches (Ref. 13).

### 3.0 PATHWAY CHARACTERIZATION

This section characterizes the source(s) associated with the Site and describes the pathways of concern, including potential targets associated with each pathway of concern.

#### 3.1 SOURCE CHARACTERIZATION

For HRS purposes, a source is defined as an area where a hazardous substance has been deposited, stored, or placed, as well as those soils that have become contaminated from the migration of a hazardous substance.

Three possible sources have been identified at the Site as shown on **Figure 2**:

- Source 1:** Potentially contaminated soil associated with the former Old Norwood Dump and the former Norwood Sanitary Landfill.
- Source 2:** Potentially contaminated soil in an undeveloped area associated with the former Norwood Sanitary Landfill.
- Source 3:** Potentially contaminated soil used to level the ground surface (fill) in the Winona Homes neighborhood. The fill is allegedly from the excavation for construction of the Walt Whitman Bridge.

As discussed in **Section 2.3**, prior analytical results for several surface and subsurface soil samples collected from former Norwood Sanitary Landfill and Winona Homes document the presence of substances at concentrations above background, including VOCs, SVOCs, pesticides, PCBs, and inorganics, with some concentrations above applicable EPA RSLs for residential soil. However, the analytical results did not identify a widespread contiguous area of contamination or a specific source of contamination. Source samples have not previously been collected from the former Old Norwood Dump area.

#### 3.2 GROUNDWATER MIGRATION PATHWAY

The Groundwater Migration Pathway is not considered a significant pathway of concern at the Site because groundwater is not used for drinking water within a 4-mile radius of the Site. Potential groundwater targets can include persons who obtain drinking water from private domestic wells within the 4-mile radius target distance limit (TDL) of the Site and persons supplied drinking water from public water suppliers whose water source is from groundwater wells within the 4-mile TDL. The primary public water supplier serving persons within a 4-mile TDL is Aqua Pennsylvania Water Company (Aqua Pennsylvania). The primary sources of water for Aqua Pennsylvania include eight surface water intakes and 28 groundwater wells (Refs. 15 and 16). There are no supply wells for Aqua Pennsylvania located within the 4-mile TDL; therefore, persons served through this supply network are not considered targets as part of this SI (Ref. 17).

Based on the Pennsylvania Groundwater Information System (PaGWIS) database search, there are no public supply wells within the 4-mile TDL; however, nine domestic wells were identified within the 4-mile radius TDL, as shown in **Figure 3** (Ref. 17). The majority of the wells appear to be owned by businesses, and one well is owned by Upper Darby Township (Ref. 17). Upper Darby Township is supplied potable water by the Aqua Pennsylvania main system; therefore, the use of the well identified in PaGWIS as domestic is not expected to be a drinking water well (Refs. 17 and 18). Additionally, Upper Darby Township was not listed in the Pennsylvania Drinking Water Reporting System as a public water supplier (Ref. 19). The wells identified in PaGWIS range in depth from 95 feet to 600 feet. One well is completed in the Trenton gravel. The remainder of the wells are completed in the Wissahickon Formation, Pennsauken Formation, or the Gabbro/Gabbroic Gneiss Formation. Using the U.S. Census Bureau persons-per-household value of 2.65 for Delaware County, approximately 24 persons rely on private domestic wells within the 4-mile TDL (Ref. 20). Persons within a 4-mile radius of the Site in New Jersey who may rely on groundwater for potable use are not considered potential targets because the Delaware River is assumed to be a regional hydrologic boundary.

The table below provides a summary of domestic wells within 4 miles of the Site and the population served.

| Radial Distance (miles) | Domestic Wells | Population Served | Public Supply Wells | Population Served | Total Population Served |
|-------------------------|----------------|-------------------|---------------------|-------------------|-------------------------|
| 0.00 to 0.25            | 0              | 0                 | 0                   | 0                 | 0                       |
| 0.25 to 0.50            | 0              | 0                 | 0                   | 0                 | 0                       |
| 0.50 to 1.0             | 0              | 0                 | 0                   | 0                 | 0                       |
| 1.0 to 2.0              | 0              | 0                 | 0                   | 0                 | 0                       |
| 2.0 to 3.0              | 4              | 11                | 0                   | 0                 | 11                      |
| 3.0 to 4.0              | 5              | 13                | 0                   | 0                 | 13                      |
| <b>Total</b>            | <b>9</b>       | <b>24</b>         | <b>0</b>            | <b>0</b>          | <b>24</b>               |

(Refs. 17 and 20)

Due to the lack of groundwater targets, the Groundwater Migration Pathway is not a pathway of concern at the Site.

### 3.3 SURFACE WATER MIGRATION PATHWAY

#### 3.3.1 Drinking Water Component

The primary public water supplier near the Site is Aqua Pennsylvania, which obtains its source water from eight surface water intakes and 28 groundwater wells that provide drinking water to approximately 820,000 persons in Montgomery, Chester, and Delaware Counties (Ref. 16). None of the surface water intakes are located along the 15-mile TDL for the Site, as shown on **Figure 4** (Ref. 17); therefore, persons served through this supply network are not potential targets associated with the surface water migration pathway.

For this reason, the Surface Water Migration Pathway – Drinking Water Threat component is not a pathway of concern because surface water is not used for drinking water within 15 miles downstream of the Site.

### 3.3.2 Human Food Chain Component

According to the Pennsylvania Fish and Boat Commission, there are three access points for boats along the 15-mile TDL, one on Darby Creek and two on the Delaware River (Ref. 21). Additionally, there is a floating dock on the Muckinipattis Creek just above its confluence with Darby Creek. Based on the presence of several access points to the waterways at and near the Site, it is assumed that recreational fishing (and possibly fishing for consumption) occurs within the 15-mile TDL. Additionally, fishing line was observed in several of the sediment sample ponar grabs during the September 2017 sampling event. The Human Food Chain Component of the Surface Water Migration Pathway is a pathway of concern because of the potential for human consumption of fish caught within the Muckinipattis and Darby Creeks.

### 3.3.3 Environmental Component

As shown in **Figures 1 and 2**, John Heinz National Wildlife Refuge is located along Darby Creek across from the Site. John Heinz National Wildlife Refuge consists of a freshwater tidal marsh that encompasses roughly 285 acres (Ref. 22). The tidal portion of Darby Creek and its side channels flow through the refuge and tidal marsh. Darby Creek is known to support a diversity of estuarine fish species such as killifish and mummichogs. Anadromous fish, such as the blueback herring and alewife, use tidal streams and rivers like Darby Creek and its side channels as nursery habitat for juveniles. The American eel, the only catadromous fish species in Atlantic Coast estuaries, spends most of its adult life in freshwater and is common in tidal creeks, rivers, and marsh channels. Waterfowl, like the American black duck, lesser scaup, and northern pintail, as well as shorebirds, like black-bellied plover, greater yellowlegs, and semipalmated sandpiper, also utilize open water habitats along Darby Creek for migratory stopovers (Ref. 22).

State endangered species such as the least bittern (*Ixobrychus exilis*) are known to breed at the refuge. Other Pennsylvania endangered species that have been observed at the refuge during migration, but are considered occasional or rare in abundance, include the yellow-crowned night-heron (*Nyctanassa violacea*), common tern (*Sterna hirundo*), black tern (*Chlidonias niger*), king rail (*Rallus elegans*), short-eared owl (*Asio flammeus*), and loggerhead shrike (*Lanius ludovicianus*). The king rail historically nested at the Site (prior to 2000). The federally endangered piping plover (*Charadrius melodus*), listed as extirpated in Pennsylvania, is an occasional “accidental” occurrence during migration. Bald eagles (*Haliaeetus leucocephalus*), a former federally listed endangered species that has recovered and been delisted, have historically utilized the refuge for hunting and roosting. The first known bald eagle nest on the refuge was built in 2009 and the first two



refuge eaglets successfully hatched in 2010. The pair has returned to breed on the refuge every year since (Ref. 22). The refuge also supports several rare species of turtle such as the state-endangered eastern mud turtle (*Kinosternon subrubrum*), the northern diamond-backed terrapin (*Malaclemys terrapin*), and a significant population of the state-threatened eastern redbelly turtle (*Pseudemys rubriventris*). Redbelly turtles are associated with the freshwater tidal marsh and open waters of Darby Creek. A state-endangered species, the southern coastal plain leopard frog (*Lithobates sphenoccephalus utricularius*), is known to inhabit and breed at the refuge in shallow open water and in isolated vernal pools (Ref. 22). In addition to the federally or state-listed threatened or endangered species observed at John Heinz National Wildlife Refuge, three federally listed threatened or endangered species, the Atlantic sturgeon (*Acipenser oxyrinchus*), the bog turtle (*Glyptemys muhlenbergii*), and the sensitive joint-vetch (*Aeschynomene virginica*), are known to occur within Delaware County, along with more than 50 state-listed threatened and endangered species including the peregrine falcon (*Falco peregrinus*), the osprey (*Pandion haliaetus*), several additional birds, turtles, and many plants associated with wetland and marshy habitats (Ref. 23). Portions of the former Old Norwood Dump and Norwood Sanitary Landfill are immediately adjacent to areas classified as a freshwater emergent wetland and a freshwater forested/shrub wetland (**Figure 4**; Ref. 24). A total of approximately 14.04 miles of wetland frontage are located along Muckinipattis Creek (0.19 miles), Darby Creek (2.58 miles), and Delaware River (11.27 miles) along the 15-mile TDL in the Delaware River (Ref. 24). Because of the presence of sensitive environment, the Environmental Component of the Surface Water Migration Pathway is a significant pathway of concern.

### 3.4 SOIL EXPOSURE AND SUBSURFACE INTRUSION PATHWAY

#### 3.4.1 Soil Exposure Component

Three areas of possible surface soil contamination, Sources 1, 2, and 3, have been identified, as shown on **Figure 2**. Source 1 consists of the former Old Norwood Dump located east of Winona Homes and adjacent to the southern boundary of Norwood Park. Source 2 consists of the former Norwood Sanitary Landfill located south and west of Winona Homes. Source 3 includes Winona Homes where soil allegedly excavated during the construction of the Walt Whitman Bridge was used to level the ground surface for construction of the homes. Residents have concerns that the soil used as fill may be contaminated. Persons residing in the Winona Homes neighborhood are potential targets located on and within 200 feet of possible surface soil contamination. No schools or daycare centers are located on the Site or within 200 feet of possible source areas. Norwood Park is located approximately 1,000 feet northeast of the Site. Norwood Elementary School is located approximately 1,700 feet to the northwest.

As discussed in **Sections 2.3** and **3.1**, prior analytical results for surface and subsurface soil samples collected from the former Norwood Sanitary Landfill and Winona Homes document the presence of substances, including VOCs, SVOCs, pesticides, PCBs, and inorganics at concentrations above background. However, the analytical results did not identify a widespread contiguous area of contamination or a specific source of contamination. Portions of Source 1, former Old Norwood Dump, are restricted by a locked chain link fence around the Delaware County Regional Water Authority (DELCORA) pumping station property. The remainder of Source 1 and Source 2, former Norwood Sanitary Landfill, is unrestricted wooded areas with no designated recreational use. However, recent use was indicated during sampling based on observation of discarded food wrappers and bottles. Because three areas of possible surface soil contamination are located within 200 feet of residential homes, the Soil Exposure Component of the Soil Exposure and Subsurface Intrusion Pathway is of significant concern.

### **3.4.2 Subsurface Intrusion Component**

A complete vapor intrusion pathway consists of five elements: (1) a subsurface source of vapor-forming chemicals is present beneath and near a building; (2) vapors form and have a route to migrate toward the building; (3) the building is susceptible to soil gas entry, which means openings exist for the vapors to enter the building; (4) vapor-forming chemicals comprising the subsurface vapor source are present in the indoor environment; and (5) the building is occupied when these chemicals are present indoors (Ref. 26).

Based on previous soil sampling analytical results, subsurface source(s) of vapor-forming chemicals was not identified at the Site; therefore, the Subsurface Intrusion Component of the Soil Exposure and Subsurface Intrusion Pathway is not of significant concern.

## **3.5 AIR MIGRATION PATHWAY**

The majority of the possible source areas are covered with grasses, shrubs, and trees; grassed residential yards; and impervious surfaces such as streets and houses. Therefore, the likelihood of a release to air is low. Therefore, the Air Migration Pathway is not considered a significant pathway of concern.

## 4.0 FIELD ACTIVITIES

### 4.1 ACCESS

EPA Site Assessment Manager obtained signed access agreements from property owners for the collection of surface and subsurface soil samples, installation of temporary monitoring wells, and collection of surface water and sediment samples. The EPA has maintained custody of the signed access agreements.

### 4.2 SITE RECONNAISSANCE

On August 18, 2020, Tetra Tech met with the EPA Site Assessment Manager and representatives of the Borough of Norwood and their environmental consultant to conduct a Site reconnaissance to identify soil boring locations within the non-residential areas to be sampled. Locations included Norwood Park, former Norwood Sanitary Landfill, and the former Old Norwood Dump. The area encompassing former Norwood Sanitary Landfill and the portion of the former Old Norwood Dump outside of the current DELCORA pumping station are heavily wooded areas. Household trash and construction debris (concrete pieces, chunks of asphalt, etc.) were observed throughout the landfill area. Ground surface was very uneven. The non-residential soil boring locations as well as the list of residential properties where soil borings will be installed were provided to PA One Call by the Tetra Tech subcontracted driller for clearance of underground utilities at the proposed locations. Additionally, on September 28, 2020, Tetra Tech was on-site with a subcontracted private utility clearance to clear and mark each non-residential soil boring and monitoring well location using ground penetrating radar. The private utility clearance of the residential properties was conducted on November 11, 2020.

### 4.3 SI SAMPLING EVENT

The SI field work, which included the collection of surface and subsurface soil samples, groundwater samples from temporary monitoring wells, and surface water and sediment samples from Muckinipattis Creek, was conducted in accordance with the following EPA-Field Sampling Plans: Norwood Landfill – Non-Residential Field Sampling Plan prepared by Weston Solutions, Inc. (Ref. 27), the Norwood Landfill – Residential Field Sampling Plan by Tetra Tech (Ref. 28) as well as in accordance with START 6 *Uniform Federal Policy Program Quality Assurance Project Plan* (UFP-QAPP) (Ref. 29) and EPA Contract Laboratory Program (CLP) method requirements. Field Logbook Notes documenting Site observations and sample collection activities are provided in **Appendix A**.

### 4.3.1 Source Characterization Sampling

To characterize possible source areas at the Norwood Landfill Site, soil samples were collected from the three AOCs from September through November 2020. Additionally, soil samples were collected from Norwood Park and other neighborhoods surrounding Winona Homes for background comparison. Source sampling locations and sampling activities are discussed in the following sections.

#### 4.3.1.1 Non-Residential Soil Sampling

In September 2020 and October 2020, a total of 42 surface (0- to 1-foot bgs) and subsurface (2- to 20-foot bgs) soil samples were collected from 30 soil borings installed within the footprint of the former Old Norwood Dump, the former Norwood Sanitary Landfill, Norwood Park, and within a right-of-way within Winona Homes to characterize soil. Additionally, four soil samples were collected from two borings, one in Norwood Park and one on Borough owned property approximately 0.5-mile north of the Site, installed at locations beyond areas assumed to have not been impacted by fill or landfilling activities. Soil/Source sample locations are shown on **Figure 5**; a description of the soil boring locations and collected samples are provided in **Table 1**; and Soil Boring Logs are provided in **Appendix B**.

A DPT drill rig was used to install the soil borings at all but five locations. Soil samples collected at sample locations SB-40 through SB-44 in the former Norwood Sanitary Landfill were collected with a stainless-steel hand auger because the area was not accessible with a drill rig due to heavy brush and vegetation. At each location, the soil borings were screened with a photoionization detector (PID) for VOCs, a Geiger counter for radioactivity, and lithology was noted on the soil boring logs. Soil samples were collected directly from the borings with an encapsulating soil coring sampling device for VOCs. Collected samples were immediately placed on ice and shipped on a daily basis to the assigned CLP laboratory. Remaining soil was placed in a disposable aluminum pan and homogenized prior to placing into the appropriate sample container for remaining analyses.

#### **Former Old Norwood Dump**

Eleven soil borings were installed in or adjacent to the former Old Norwood Dump with a total of 20 surface and subsurface soil samples collected (**Figure 5**), including one surface and one subsurface duplicate sample. At one location (SS/SB-36), three boring were installed approximately 10 feet apart in a transect beginning closest to the residences and extending into the dump area. The purpose of the transect was to delineate the edge of the dump area. In accordance with the approved Field Sampling Plans (FSP), as no visible contamination was observed in the borings or no elevated VOC readings on the PID were observed, samples

were only collected from one of the three borings, SS/SB-36B; on the unpaved access road that runs behind the residences. Borings ranged in depth from 10- to 20-feet bgs. Borings terminated below 20 feet were due to encountering refusal.

Concrete pieces were observed at boring locations SS/SB-28 and SS/SB-29 at approximately 3-feet bgs. Trash and glass were observed at location SS/SB-36A at approximately 5-feet bgs and trash and concrete were observed at the surface and at 2.5-feet bgs at locations SS/SB-36C and SS/SB-36B, respectively. VOCs were not observed on the PID at any boring location.

### **Former Norwood Sanitary Landfill**

Fourteen soil borings were installed along the perimeter and into the landfill with a total of 18 surface and subsurface soil samples collected (**Figure 5**). At three locations (SS/SB-37, SS/SB-38, and SS/SB-39), three borings were installed approximately 10 feet apart in a transect beginning closest to the residences and extending into the dump area using DPT. The purpose of the transect was to delineate the edge of the dump area. In accordance with the approved FSP, as no visible contamination was observed in the borings or elevated VOC readings on the PID, samples were only collected from one of the three borings from transects 37 and 38 at locations SS/SB-37A and SS/SB-38A; the borings closest to the residences. However, at transect 39, surface and subsurface soil samples were collected from two borings, SS/SB-39A, closest to residences on the unpaved access road that runs behind the residences; and at SS/SB-39C, the furthest location into the former landfill. Borings ranged in depth from 2- to 15-feet bgs. Borings were terminated below 20-feet due to encountering refusal. As five locations (SS/SB-40, SS/SB-41, SS/SB-42, SS/SB-43, and SS/SB-44) in the landfill area were inaccessible for the drill rig, samples were collected using a stainless-steel hand auger. Hand auger borings were advanced to approximately 3-feet bgs.

Asphalt and concrete pieces were observed at boring location SS/SB-38B at approximately 0.5- to 1.5-feet bgs. At location SS/SB-39B, concrete pieces were observed at approximately 5- to 5.5-feet bgs and trash, glass, and plastic at 8.5- to 11-feet bgs. Trash and cinders were observed at location SS/SB-41, from approximately 3-inches to 3-feet bgs. Trash, glass, and plastic were also observed at locations SS/SB-42, SS/SB-43, and SS/SB-44 at approximately 5-feet bgs and trash and concrete were observed at the surface and at 2.5-feet bgs at locations SS/SB-36C and SS/SB-36B, respectively. VOCs were not observed on the PID at any boring location.

### **Norwood Park and Winona Homes Right-of-Way**

Two soil borings (SS/SB-23 and SS/SB-24) were installed in the southeast of Norwood Park. One soil boring (SS/SB-25) was installed in the approximate center of Winona Homes within a right-of-way. A total of six surface and subsurface soil samples were collected (**Figure 5**). The boring locations in Norwood Park were to determine if the former Old Norwood Dump could have previously extended that far north. Borings ranged in depth from 10- to 17-feet bgs. Borings were terminated below 20-feet due to encountering refusal. No trash or other debris were observed in the borings. VOCs were not observed on the PID at any boring location.

### **Background Locations**

One soil boring (SS/SB-21) was installed on a portion of Borough property approximately 1,000 feet northwest of Winona Homes, and one soil boring (SS/SB-22) was installed at the northern end of Norwood Park, at locations believed to not have been impacted by past fill or landfilling activities to document background soil conditions. A surface and subsurface soil samples were collected from each boring (**Figure 5**). Borings ranged in depth from 13- to 20-feet bgs. Borings were terminated below 20 feet due to encountering refusal. No trash or other debris were observed in the borings. VOCs were not observed on the PID at any boring location.

#### **4.3.1.2 Residential Soil Sampling**

EPA contacted 228 residences through email and postcard notification mailings in effort to gain access to as many properties in Winona Homes and surrounding neighborhoods for participation in the residential sampling effort. In November and December 2020, a total of 187 soil samples were collected from 70 residential properties primarily within Winona Homes (57 properties). Soil samples were also collected from residential properties in surrounding neighborhoods for comparison (13 properties). At each of the 70 properties, two separate soil samples were collected: one a grab surface (0- to 0.5-foot bgs) soil sample and the second a five-point composite surface soil sample. The grab surface soil samples were collected to determine if contaminants at concentrations above background and at levels that may pose a risk to human health are present within the soil at depths that residents may come into dermal contact. Composite soil samples were collected in order to evaluate the presence of contaminants over the entire property that may be missed with a discrete grab sample. The subsurface soil samples were collected to determine whether landfill material was present below the surface in the residential areas and whether fill used during the construction of the neighborhood contained concentrations of contaminants above background and at levels that may pose a risk to human health. However, it is not anticipated that residents would come into regular

contact with soil below 2-feet bgs. Debris and/or landfill material was generally not observed in the subsurface soil samples, with the exception of glass debris, ash, and pieces of charred wood at one location, SB-128. At 19 of the 70 properties (15 properties within Winona Homes and four properties in surrounding neighborhoods), shallow subsurface (2- to 4-feet bgs) soil samples were collected using a hand auger. At 14 of the 70 properties (12 properties within Winona Homes and two properties in surrounding neighborhoods), a shallow subsurface (2- to 4-feet bgs) and a deep (8- to 10-feet bgs) soil sample was collected using DPT. At each location, the soil borings, both by hand auger and DPT, were screened with a photoionization detector (PID) for VOCs and lithology was noted on the soil boring logs. Low-level PID detections in parts per billion were noted in several of the borings. Residential soil sample locations are shown on **Figure 6**, a description of the soil sample locations are provided in **Table 2**, and the soil boring logs are provided in **Appendix B**.

### 4.3.2 Groundwater Sampling

Groundwater is not used as a drinking water source at the Site. Residents expressed concern that if their house was built on and in contaminated fill that groundwater can migrate into their homes during heavy rain events, thus potentially exposing them to contaminants. Therefore, groundwater samples were collected from temporary wells as discussed below to assess whether contaminants were present that could cause a vapor intrusion condition.

In October 2020, six temporary monitoring wells were installed at the Site; one in the center of the former Old Norwood Dump at soil boring location SS/SB-31 (GW-04); two along the southern boundary between Winona Homes and the former Norwood Sanitary Landfill at soil boring locations SS/SB-37a (GW-05) and SS/SB-39a (GW-06); one in the center of Winona Homes at boring location SS/SB-25 (GW-03); one in the northern portion of Norwood Park at location SS/SB-22 (GW-02) as a background; and one approximately 1,000 feet northwest of the Winona Homes neighborhood at soil boring location SS/SB/21 (GW-01) as a background. Monitoring well locations are shown on **Figure 5** and a description of the monitoring well locations, collected samples, and monitoring well construction is provided in **Table 1**. Monitoring well development and purge logs are provided in **Appendix C**.

The borings were converted to temporary monitoring wells using pre-packed 1-inch-diameter, 5- or 10-foot, 0.01-inch slotted polyvinyl chloride (PVC) screens and 0-graded sand. The temporary wells were developed to reduce sediment and turbidity. The depth to water was measured both prior to and following development. Approximately 24 hours to 5 days following installation, groundwater samples were collected from the monitoring wells. Depth to water measurements were recorded at each well prior to the start of sampling

activities. The monitoring well samples were collected using low-flow sampling techniques as stated in the approved FSPs. The pump intake was set at the approximate mid-point of the portion of the well screen below the measured water level in the well or at a minimum 2.5 feet below the water level within the well screen. Groundwater samples were collected directly into the appropriate sampling containers, placed on ice, and packaged and shipped to the assigned CLP laboratory for analysis. Collected groundwater samples were not filtered and were submitted for total metals analysis.

Immediately after installation, wells GW-02 and GW-05 were noted as dry. The wells were rechecked 24 hours later and were still dry. Thus, groundwater samples were not collected from these wells. During sampling, GW-03 purged dry within two to three minutes of purging and was allowed to recharge for approximately one hour at which time the groundwater sample was collected.

### 4.3.3 Surface Water Sampling

In October 2020, six co-located surface water and sediment samples were collected from Muckinipattis Creek, including at an upstream location from the former WWTP, to document background conditions (SW/SD-13). Two surface and sediment samples (SW/SD-14 and SW/SD-15) were collected adjacent to the former WWTP and two surface water and sediment samples (SW/SD-16 and SW/SD-17) were collected adjacent to the former Old Norwood Dump. A surface water and sediment sample were also collected adjacent to a floating dock used for fishing (SW/SD-18). Five additional sediment samples were collected from wetland areas. Samples SD-19 and SD-20 were collected in a wetland area adjacent to the former Old Norwood Dump and samples SD-21, SD-22, and SD-23 were collected in a wetland area adjacent to and downstream of the former Norwood Sanitary Landfill. Darby Creek and Muckinipattis Creek are tidal; therefore, an attempt was made to collect the surface water and sediment samples at low-tide or during an out-going tide to ensure there was no influence of contaminants migrating from downstream sources. The surface water and sediment samples are shown on **Figure 5** and the locations, time collected, and the high and low tides for each day are noted in **Table 3** (Ref. 30).

The surface water and sediment samples were collected in accordance with procedures outlined in the FSPs. At each sampling location, surface water was collected prior to collection of sediment to minimize sediment within the water column. Surface water was collected directly into the appropriate sample containers by submerging the container below the water surface, with the exception of samples collected for VOC analysis. Surface water for VOC analysis were collected by pouring collected water in a 1-liter amber jar into the pre-preserved volatile organic analysis vials. Collected sediment was placed in a disposable aluminum pan and the VOC fraction was collected in encapsulating coring sampling device. The remaining sediment was then



homogenized and placed into the appropriate sample containers, placed on ice, and submitted to the assigned CLP laboratory. Collected surface water samples were not filtered and were submitted for total metals analysis.

#### **4.3.4 Soil Exposure and Subsurface Intrusion Sampling**

The following sections discuss the soil exposure and subsurface intrusion sampling conducted as part of this ESI.

##### **4.3.4.1 Soil Exposure Sampling**

The soil exposure component of the Soil Exposure and Subsurface Intrusion pathway is the primary pathway of concern at the Site as a result of potentially contaminated soil used during construction of Winona Homes and contaminated soil associated with the former Old Norwood Dump and former Norwood Sanitary Landfill. Soil samples collected to evaluate the Soil Exposure Pathway are discussed in **Section 4.3.1**.

##### **4.3.4.2 Subsurface Intrusion Sampling**

The subsurface intrusion component of the Soil Exposure and Subsurface Intrusion pathway is not considered a primary pathway of concern at the Site based on the lack of volatile contaminants observed in soil samples collected during previous activities. Therefore, soil gas and indoor air samples were not collected as part of the SI; however, shallow groundwater samples were collected to determine if there were any volatile contaminants in groundwater that could possibly be originating from an unknown upgradient source which could cause a vapor intrusion condition for Winona Homes, as discussed in **Section 4.3.2**, which will be used evaluate the potential for vapor intrusion at the Site.

#### **4.3.5 QC Sampling**

Field and laboratory quality assurance/quality control (QA/QC) samples were collected in accordance with the approved Sampling Work Plans: Norwood Landfill – Non-Residential Field Sampling Plan prepared by Weston Solutions, Inc. (Ref. 27) and the Norwood Landfill – Residential Field Sampling Plan by Tetra Tech (Ref. 28) as well as in accordance with START 6 *UFP-QAPP* (Ref. 29) and EPA CLP method requirements. QC samples consisted of the collection of field duplicate samples, trip blank samples, and equipment rinsate blank samples of non-dedicated sampling equipment. EPA Region 3 does not require matrix spike/matrix spike duplicate (MS/MSD) samples for volatile analysis of soil and aqueous samples.

#### 4.3.6 Deviation from Sampling Plan

Two non-residential soil borings planned to be installed within the right-of-way within Winona Homes (SB-26 and SB-27) were not installed and soil samples were not collected at these locations. During the ground penetrating radar utility clearance survey, a large enough area could not be cleared at these locations to confidently install soil borings without encountering underground utilities. As additional soil sampling was planned on residential properties within the neighborhood, the EPA determined it was not essential that these samples be collected.

Groundwater samples were not collected from two of the six temporary monitoring wells because the wells were dry.

### 5.0 ANALYTICAL RESULTS

Samples were analyzed for TAL organics VOCs, SVOCs, polycyclic aromatic hydrocarbons (PAH) by Selective Ion Monitoring (SIM), PCBs, and pesticides and in accordance with EPA CLP Methods SOM02.4 and ISM02.4 for organics and inorganics, respectively. At the discretion of the EPA Work Assignment Manager (WAM), two soil samples (plus a duplicate) were also analyzed for dioxins/furans in accordance with EPA CLP High Resolution Superfund Methods HRSM01.2. Surface water and groundwater samples were analyzed using the Trace VOC method. Groundwater and surface water were unfiltered and were analyzed for total metals by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) and mercury was analyzed by cold vapor atomic absorption (CVAA). Metals for soil and sediment were analyzed for aluminum, calcium, iron, magnesium, potassium, and sodium by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) with the remaining metals analyzed by ICP-MS and mercury by CVAA. The data validation for all analytical data was performed by the EPA Region 3 Environmental Services Assistance Team (ESAT). Analytical data were validated according to the *National Functional Guidelines for Inorganic and Organic Superfund Methods Data Review* and applicable EPA Region 3 modifications. The data validation reports are included in **Attachment 3**.

Analytical summary tables for results detected above the reported detection limits (RDLs) (i.e., adjusted Contract Required Quantitation Limits [CRQLs] with respect to dilution factor and percent solids) are provided in **Tables 4** through **15**. The tables also reflect the concentrations of contaminants that were detected significantly above background concentrations (i.e., three times background levels). For the non-residential samples, the surface soil samples (0- to 1-foot bgs) were compared to the highest concentration detected in the two background samples (SS-21 and SS-22) and the subsurface soil samples were compared to the highest concentration detected in the subsurface background samples (SB-21 and SB-22). For the

residential samples, soil samples collected from Winona Homes were compared to the highest concentration detected in the applicable sample depth (i.e., composite, surface, shallow subsurface [2- to 4-feet bgs], and deep subsurface [beyond 4-feet bgs]) in the samples collected from surrounding neighborhoods (sample locations 100 and 156 through 167). Groundwater samples were compared to the sample collected from the upgradient well (GW-01) and surface water and sediment samples were compared to the most upstream samples (SW/SD-13). Samples containing compounds that were not detected in the background samples above the RDL are considered significantly above background if they were detected at a concentration equal to or greater than the background sample RDL. Complete laboratory analytical data tables for all analyses and matrices are provided in **Attachment 3**.

## 5.1 SOURCE CHARACTERIZATION

The following sections discuss the source sampling analytical data.

### 5.1.1 Non-Residential Soil Sampling

The analytical results for the three non-residential soil sampling areas including the former Old Norwood Dump; former Norwood Sanitary Landfill; and Norwood Park and Winona Home right-of-way are discussed below. Soil samples were analyzed for PAHs by means of SIM analysis to achieve lower detection limits and by routine SVOC analysis which has higher detection limits as PAHs are a subgroup of SVOCs. The tables summarizing the SVOCs analytical results include the analytical results from both methods. Because the SIM method has lower detection limits, PAHs may be detected in soil samples using the SIM method but not detected in the same sample when analyzed by the routine SVOC analysis method.

Two soil samples were analyzed for dioxin and furans, shortened names for a family of toxic substances that all share a similar chemical structure. The analytical summary tables list the concentration of each individual dioxin, furan, or congener. To determine toxicity to humans, a derived toxicity equivalence (TEQ) for the mixture of the dioxins and furans is calculated. TEQs are a weighted quantity measure based on the toxicity of each member of the dioxin and dioxin-like compounds category (furans) relative to the most toxic members of the category. TEQs are calculated values that provide toxicity of different combinations of dioxins and dioxin-like compounds.

**Figures 5A through 5D** show the sample locations that contain concentrations of PAHs, PCBs, pesticides, or inorganics, respectively, significantly above background (i.e., three times background levels) in the non-residential soil samples collected in September 2020, as discussed below.

### **Former Old Norwood Dump**

VOCs were not detected above the CRQL in the ten surface or ten subsurface soil samples collected from former Old Norwood Dump or not detected at concentrations significantly above background (**Table 4**).

PAHs and SVOCs were detected above the CRQL in nine and five surface samples, respectively (**Table 4**). As indicated in the table, nine of the ten surface soil samples collected from the former Old Norwood Dump contained concentrations of low-level PAHs by SIM significantly above comparable background samples analyzed by SIM. The tenth sample, SS-31, was not analyzed by SIM due to elevated concentrations above method capability. The routine SVOC method detected SVOCs in five of the ten surface soil samples at concentrations significantly above background (SS-28, SS-31, SS-33 [and its duplicate SS-33-01], and SS-36B).

SVOCs/PAHs detected by routine or SIM analysis at concentrations significantly above background in surface soil samples include the following:

- Acenaphthene in seven samples ranging from 4 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) in SS-30 to 390  $\mu\text{g}/\text{kg}$  in sample SS-31
- Acenaphthylene in six samples ranging from 4.6  $\mu\text{g}/\text{kg}$  in SS-29 to 100  $\mu\text{g}/\text{kg}$  in sample SS-33
- Anthracene in seven samples ranging from 12  $\mu\text{g}/\text{kg}$  in SS-29 to 1,300  $\mu\text{g}/\text{kg}$  in sample SS-31
- Benzo(a)anthracene in eight samples ranging from 30  $\mu\text{g}/\text{kg}$  in SS-35 to 2,600  $\mu\text{g}/\text{kg}$  in sample SS-31
- Benzo(a)pyrene in seven samples ranging from 41  $\mu\text{g}/\text{kg}$  in SS-31 to 2,200  $\mu\text{g}/\text{kg}$  in sample SS-31
- Benzo(b)fluoranthene in six samples ranging from 61  $\mu\text{g}/\text{kg}$  in SS-29 to 2,600  $\mu\text{g}/\text{kg}$  in sample SS-31
- Benzo(k)fluoranthene in seven samples ranging from 21  $\mu\text{g}/\text{kg}$  in SS-S0 to 1,000  $\mu\text{g}/\text{kg}$  in sample SS-31
- Benzo(g,h,i)perylene in five samples ranging from 57  $\mu\text{g}/\text{kg}$  in SS-28 to 1,300  $\mu\text{g}/\text{kg}$  in sample SS-31
- Chrysene in seven samples ranging from 42  $\mu\text{g}/\text{kg}$  in SS-30 to 2,200  $\mu\text{g}/\text{kg}$  in sample SS-31
- Dibenzo(a,h)anthracene in nine samples ranging from 4.1  $\mu\text{g}/\text{kg}$  in SS-32 to 440  $\mu\text{g}/\text{kg}$  in sample SS-31
- Dibenzofuran in one sample at 440  $\mu\text{g}/\text{kg}$  in sample SS-31
- Fluoranthene in seven samples ranging from 81  $\mu\text{g}/\text{kg}$  in SS-29 to 4,800  $\mu\text{g}/\text{kg}$  in sample SS-31
- Fluorene in seven samples ranging from 4.4  $\mu\text{g}/\text{kg}$  in SS-29 to 650  $\mu\text{g}/\text{kg}$  in sample SS-31
- Indeno(1,2,3-cd)pyrene in seven samples ranging from 21  $\mu\text{g}/\text{kg}$  in SS-30 to 1,300  $\mu\text{g}/\text{kg}$  in sample SS-31
- 2-Methylnaphthalene in four samples ranging from 6.8  $\mu\text{g}/\text{kg}$  in SS-36B to 230  $\mu\text{g}/\text{kg}$  in sample SS-31
- Naphthalene in four samples ranging from 15  $\mu\text{g}/\text{kg}$  in SS-33 to 240  $\mu\text{g}/\text{kg}$  in SS-31
- Phenanthrene in eight samples ranging from 36  $\mu\text{g}/\text{kg}$  in SS-32 to 4,600  $\mu\text{g}/\text{kg}$  in sample SS-31
- Pyrene in nine samples ranging from 41  $\mu\text{g}/\text{kg}$  in SS-32 to 4,800  $\mu\text{g}/\text{kg}$  in sample SS-31

Only two of the ten subsurface soil samples (SB-31 and SB-36B) contained low-level concentrations of PAHs by SIM analysis at concentrations significantly above background and only SB-36B contained one SVOC by routine analysis at a concentration significantly above background (**Table 4**). SVOCs/PAHs detected by routine or SIM analysis at concentrations significantly above background in subsurface soil samples include the following:

- Acenaphthylene in one sample at 8 µg/kg in sample SB-31
- Anthracene in one sample at 5.2 µg/kg in sample SB-31
- Benzo(a)anthracene in two samples at 12 µg/kg in SB-36B and 35 µg/kg in sample SB-31
- Benzo(a)pyrene in two samples at 6.5 µg/kg in SS-36B and 41 µg/kg in sample SB-31
- Benzo(b)fluoranthene in two samples at 16 µg/kg in SS-36B and 57 µg/kg in sample SB-31
- Benzo(k)fluoranthene in one sample at 16 µg/kg in sample SB-31
- Benzo(g,h,i)perylene in two samples at 4.1 µg/kg in SS-36 B and 58 µg/kg in sample SB-31
- Bis(2-ethylhexyl)phthalate in one sample at 3,000 µg/kg in sample SB-36B
- Chrysene in two samples at 20 µg/kg in SS-36B and 37 µg/kg in sample SB-31
- Dibenzo(a,h)anthracene in one sample at 9.5 µg/kg in sample SB-31
- Fluoranthene in two samples at 20 µg/kg in SS-36B and 43 µg/kg in sample SB-31
- Indeno(1,2,3-cd)pyrene in one sample at 28 µg/kg in sample SB-31
- Phenanthrene in two samples at 12 µg/kg in SS-36B and 14 µg/kg in sample SB-31
- Pyrene in two samples at 25 µg/kg in SS-36B and 31 µg/kg in sample SB-31

The PCB Aroclor-1260 was detected at concentrations significantly above background in three of the ten surface soil samples: SS-29 at 68 µg/kg; SS-30 at 71 µg/kg; and SS-36B at an estimated concentration of 96 µg/kg (**Table 5**). PCBs were not detected above the CRQL in the subsurface soil samples collected from former Old Norwood Dump or not detected at concentrations significantly above background.

Five of the ten surface soil samples (SS-29, SS-30, SS-31, SS-35, and SS-36B) contained at least one pesticide at concentrations significantly above background (**Table 5**). Only one subsurface soil sample (SB-36B) contained pesticides significantly above background. SB-36 contained one pesticide, 4,4,4-DDD, at a concentration of 4.9 µg/kg. Pesticides detected at concentrations significantly above background include:

- 4,4,4-DDD in three samples ranging from 3.6 µg/kg in SS-35 to 8.5 µg/kg in SS-31
- 4,4,4-DDE in one sample at 8.5 µg/kg in SS-36B
- 4,4,4-DDT in three samples ranging from 4.9 µg/kg in SS-36B to 48 µg/kg in SS-35
- cis-Chlordane in five samples ranging from 2.6 µg/kg in SS-29 to 7.6 µg/kg in SS-31
- trans-Chlordane in three samples from 2.6 µg/kg in SS-30 to 6.4 µg/kg in SS-36B
- beta-BHC (Lindane) in one sample at 12 µg/kg in SS-31

At least one inorganic element was detected at elevated concentrations in all of the surface and subsurface soil samples collected from the former Old Norwood Dump (**Table 7**). Inorganics detected at concentrations significantly above background in surface soil samples include the following:

- Antimony in two samples at 1.2 milligrams per kilogram (mg/kg) in SS-35 and 2.1 mg/kg in SS-32
- Barium in four samples ranging from 143 mg/kg in SS-30 to 166 mg/kg in SS-35
- Cadmium in five samples ranging from 0.47 mg/kg in SS-32 to 2.3 mg/kg in SS-31
- Calcium in seven samples ranging from 1,430 mg/kg in SS-33 to 9,250 mg/kg in SS-31
- Chromium in five samples ranging from 62.3 mg/kg in SS-32 to 389 mg/kg in SS-31
- Copper in six samples ranging from 51.2 mg/kg in SS-36B to 157 mg/kg in SS-31
- Lead in five samples ranging from 73.1 mg/kg in SS-036B to 384 mg/kg in SS-35
- Magnesium in four samples ranging from 5,490 mg/kg in SS-32 to 7,770 mg/kg in SS-30
- Manganese in one sample at 508 mg/kg in SS-36B
- Mercury in eight samples ranging from 0.11 in SS-28 to 1.1 mg/kg in SS-31
- Nickel in seven samples ranging from 13.3 mg/kg in SS-28 to 112 mg/kg in SS-31
- Potassium in eight samples ranging from 2,110 mg/kg in SS-36B to 10,100 mg/kg in SS-30
- Silver in five samples ranging from 3.1 mg/kg in SS-36B to 27.7 mg/kg in SS-31
- Zinc in seven samples ranging from 82.7 mg/kg in SS-28 to 478 mg/kg in SS-31

Inorganics detected at concentrations significantly above background in subsurface soil samples include the following:

- Arsenic in six samples ranging from 2.4 mg/kg in SB-34 to 3.6 mg/kg in SB-36B
- Barium in one sample as high as 133 mg/kg in SB-31
- Calcium in eight samples ranging from 441 mg/kg in SB-33 to 2,490 mg/kg in SB-31
- Chromium in two samples at 35.4 in SB-28 to 37.4 mg/kg in SB-36B
- Lead in three samples ranging from 39.7 mg/kg in SB-32 to 162 mg/kg in SB-31
- Mercury in two samples at 0.14 mg/kg in SB-30 to 0.27 mg/kg in SB-36B
- Nickel in five samples ranging from 15.4 mg/kg in SB-29 to 19.1 mg/kg in SB-36B
- Thallium in one sample as high as 0.61 mg/kg in SB-35

Dioxins and furans were detected in the one surface soil sample (SS-36B) (**Table 6**). The derived TEQ in the sample is 9.7 nanograms per kilogram (ng/kg). Background samples were not analyzed for dioxins and furans.

In summary, at least one PAH and/or inorganic were detected in all surface soil samples collected from the former Old Norwood Dump at concentrations significantly above background based on SIM analysis and comparable background samples analyzed by SIM. Sample SS-31 contained the highest concentrations for the majority of the constituents, thus documenting an area of observed contamination. Additionally, at least one inorganic was detected in all subsurface soil samples at concentrations significantly above background. PAHs were only detected at concentrations significantly above background in two of the subsurface soil samples. Three of the 10 surface soil samples contained concentrations of PCBs significantly above

background. PCBs were not detected above background in the subsurface soil samples. Dioxins and furans were detected in the one sample analyzed for these constituents. Pesticides were detected at concentrations significantly above background in five of the 10 surface soil samples and one subsurface soil sample.

### **Former Norwood Sanitary Landfill**

VOCs were not detected above the CRQL in the nine surface or ten subsurface soil samples collected from the former Norwood Sanitary Landfill or not detected at concentrations significantly above background, with the exception of the concentration of acetone in subsurface soil sample SB-41 at 20 µg/kg (**Table 4**).

Soil samples were analyzed for PAHs by means of SIM analysis to achieve lower detection limits and by routine SVOC analysis with the exception of SB-42 (and duplicate SB-42-1). Samples SB-42 and SB-42-1 were not analyzed by SIM due to elevated concentrations above method capability. Summary of the detected PAHs and SVOCs above the CRQL is provided in **Table 4**.

All surface soil samples collected from the former Norwood Sanitary Landfill contained concentrations of low-level PAHs by SIM significantly above comparable background samples analyzed by SIM, with the exception of SS-37A (**Table 4**). The surface soil samples analyzed by routine SVOCs methods detected SVOCs in three of the nine surface soil samples (SS-39C, SS-41, and SS-43) at concentrations significantly above background.

SVOCs/PAHs detected by routine or SIM analysis at concentrations significantly above background in surface soil samples include the following:

- Acenaphthene in five ranging from 6 µg/kg in SS-38A to 94 µg/kg in sample SS-43
- Acenaphthylene in six samples ranging from 7.8 µg/kg in SS-38A to 43 µg/kg in sample SS-43
- Anthracene in eight samples ranging from 6.6 µg/kg in SS-40 to 290 µg/kg in sample SS-43
- Benzo(a)anthracene eight samples ranging from 35 µg/kg in SS-40 to 970 µg/kg in sample SS-43
- Benzo(a)pyrene in eight samples ranging from 34 µg/kg in SS-40 to 670 µg/kg in sample SS-43
- Benzo(b)fluoranthene in six samples ranging from 100 µg/kg in SS-39A to 1,000 µg/kg in sample SS-43
- Benzo(k)fluoranthene in six samples ranging from 28 µg/kg in SS-39A to 330 µg/kg in sample SS-43
- Benzo(g,h,i)perylene in seven samples from 46 µg/kg in SS-38A to 450 µg/kg in sample SS-41
- Chrysene eight samples ranging from 37 µg/kg in SS-42 to 730 µg/kg in sample SS-43
- Dibenzo(a,h)anthracene in eight samples ranging from 6.5µg/kg in SS-42 to 130 µg/kg in sample SS-43
- Fluoranthene in seven samples ranging from 69 µg/kg in SS-40 to 1,700 µg/kg in sample SS-43
- Fluorene in six samples ranging from 3.9 µg/kg in SS-39A to 95 µg/kg in sample SS-43
- Indeno(1,2,3-cd)pyrene in eight samples ranging from 20 µg/kg in SS-42 to 370 µg/kg in sample SS-43

- 2-Methylnaphthalene in three samples ranging from 6.9 µg/kg in SS-42 to 29 µg/kg in sample SS-43
- Naphthalene in four samples ranging from 11 µg/kg in SS-41 to 52 µg/kg in SS-43
- Phenanthrene in eight samples from 27 µg/kg in SS-40 to 1,200 µg/kg in sample SS-43
- Pentachlorophenol in three samples from 2.2 µg/kg in SS-41 to 9.9 µg/kg in SS-44
- Pyrene in eight samples from 48 µg/kg in SS-40 to 1,400 µg/kg in sample SS-43

Only five of the ten subsurface soil samples (SB-41, SB-42 [and duplicate SB-42-1], SB-43, and SB-44) contained concentrations of PAHs and VOCs by either SIM or routine analysis (**Table 4**).

- Acenaphthene in five samples ranging from 14 µg/kg in SB-44 to 1,700 µg/kg in sample SB-42-1
- Acenaphthylene in five samples ranging from 8.8 µg/kg in SB-44 to 930 µg/kg in sample SB-42-1
- Anthracene in five samples ranging from 34 µg/kg in SB-44 to in sample SB-42-1
- Benzo(a)anthracene five samples ranging from 87 µg/kg in SB-44 to 7,300 µg/kg in sample SB-42
- Benzo(a)pyrene in five samples ranging from 70 µg/kg in SB-44 to 4,800 µg/kg in sample SB-42
- Benzo(b)fluoranthene in five samples ranging from 100 µg/kg in SB-44 to 5,400 µg/kg in sample SB-42
- Benzo(k)fluoranthene in five samples ranging from 42 µg/kg in SB-44 to 1,700 µg/kg in sample SB-42
- Benzo(g,h,i)perylene in five samples ranging from 66 µg/kg in SB-44 to 1,800 µg/kg in sample SB-42
- 1,1-Biphenyl in one sample at 250 µg/kg in sample SB-42-1
- Bis(2-ethylhexyl)phthalate in three samples ranging from 290 µg/kg in SB-42 to 1,800 µg/kg in sample SB-41
- Butylbenzylphthalate in one sample at 230 µg/kg in sample SB-41
- Carbazole in two samples ranging from 960 µg/kg in SB-42 to 1,300 µg/kg in sample SB-42-1
- Chrysene five samples ranging from 73 µg/kg in SB-44 to 6,700 µg/kg in sample SB-42
- Dibenzo(a,h)anthracene in five samples ranging from 21 µg/kg in SB-44 to 760 µg/kg in sample SB-42
- Dibenzofuran in two samples ranging from 1,200 µg/kg in SB-42 to 1,700 µg/kg in sample SB-42-1
- Di-n-butylphthalate in two samples ranging from 220 µg/kg in SB-42 to 390 µg/kg in sample SB-43
- Di-n-octyl phthalate in one sample at 4,000 µg/kg in sample SB-41
- Fluoranthene in five samples ranging from 160 µg/kg in SB-44 to 15,000 µg/kg in sample SB-42 and SB-42-1
- Fluorene in five samples ranging from 13 µg/kg in SB-44 to 3,600 µg/kg in sample SB-42-1
- Indeno(1,2,3-cd)pyrene in five samples ranging from 63 µg/kg in SB-44 to 1,900 µg/kg in sample SB-42
- 2-Methylnaphthalene in three samples ranging from 7.9 µg/kg in SB-44 to 640 µg/kg in sample SB-42-1
- Naphthalene in three samples ranging from 56 µg/kg in SB-44 to 450 µg/kg in SB-42-1
- Pentachlorophenol in three samples ranging from 5.7 µg/kg in SB-44 to 29 µg/kg in SB-43
- Phenanthrene in five samples ranging from 130 µg/kg in SB-44 to 21,000 µg/kg in sample SB-42-1
- Pyrene in five samples ranging from 140 µg/kg in SB-44 to 13,000 µg/kg in sample SB-42 and SB-42-1



The PCB Aroclor-1260 was detected in four of the nine surface soil samples (SS-39C at 81 µg/kg, SS-41 at 110 µg/kg, SS-43 at 63,000 µg/kg, and SS-44 at 269 µg/kg) at concentrations significantly above background (**Table 5**). PCBs were also detected at concentrations significantly above background in subsurface soil sample SB-43 (Aroclor-1260 at 10,000 µg/kg) and SB-41 (Aroclor-1248 at 381 µg/kg).

Four of the nine surface soil samples (SS-39C, SS-41, SS-42, and SS-44) contained at least one pesticide at concentrations significantly above background (**Table 5**). Sample SS-44 contained the most pesticides and the highest concentrations. Five of ten subsurface soil samples (SB-41, SB-42 [and duplicate SB-42-1], SB-43, and SB-44) contained at least one pesticide at concentrations significantly above background. Samples SB-42, SB-43, and SB-44 contained the most pesticides, and SB-43 contained the highest concentrations.

Dioxins and furans were detected in surface soil sample SS-39A and its duplicate (SS-39A-01) (**Table 6**). The derived TEQ in the samples are 5.6 ng/kg and 5 ng/kg. Background samples were not analyzed for dioxins and furans.

At least one inorganic element was detected at concentrations significantly above background in all of the surface and subsurface soil samples collected from the former Norwood Sanitary Landfill, with the exception of subsurface soil samples SB-39C and SB-39A (**Table 7**). Inorganics detected at concentrations significantly above background in surface soil samples include the following:

- Antimony in two samples ranging from 1.1 mg/kg in SS-43 to 5.9 mg/kg in SS-44
- Arsenic in one sample at 32.8 mg/kg in SS-43
- Barium in two samples ranging from 245 mg/kg in SS-43 to 379 mg/kg in SS-44
- Cadmium in six samples ranging from 0.45 mg/kg in SS-40 to 3.2 mg/kg in SS-44
- Calcium in nine samples ranging from 1,220 mg/kg in SS-37A to 22,8200 mg/kg in SS-39A
- Chromium in one sample at 234 mg/kg in SS-43
- Copper in four samples ranging from 43.1 mg/kg in SS-41 to 289 mg/kg in SS-42
- Iron in two samples ranging from 87,200 mg/kg in SS-44 to 136,000 mg/kg in sample SS-43
- Lead in seven samples ranging from 50.2 mg/kg in SS-38A to 1,180 mg/kg in SS-44
- Magnesium in one sample at 13,000 mg/kg in SS-39A
- Manganese in four samples ranging from 325 mg/kg in SS-42 to 417 mg/kg in SS-44
- Mercury in four samples ranging from 0.11 mg/kg in SS-40 and SS-42 to 0.9 mg/kg in SS-43
- Nickel in three samples ranging from 14.5 mg/kg in SS-42 to 29.4 mg/kg in SS-44
- Potassium in three samples ranging from 2,190 mg/kg in SS-39A to 2,930 mg/kg in SS-44
- Silver in one sample at 1.4 mg/kg in SS-44
- Zinc in seven samples ranging from 60.4 mg/kg in SS-38A to 618 mg/kg in SS-44

Inorganics detected at concentrations significantly above background in subsurface soil samples include the following:

- Arsenic in seven samples ranging from 2.4 mg/kg in SB-44 to 5.7 mg/kg in SB-41

- Barium in six samples ranging from 186 mg/kg in SB-43 to 762 mg/kg in SB-43
- Cadmium in five samples ranging from 0.69 mg/kg in SB-42-1 to 22.3 mg/kg in SB-43
- Calcium in seven samples ranging from 406 mg/kg in SB-38A to 6,320 mg/kg in SB-41
- Chromium in three samples ranging from 39 mg/kg in SB-41 to 432 mg/kg in SB-43
- Cobalt in one sample at 19.3 mg/kg in SB-40
- Copper in five samples ranging from 112 mg/kg in SB-44 to 380 mg/kg in SB-41
- Iron in one sample at 123,000 mg/kg in SB-43
- Lead in five samples ranging from 385 mg/kg in SB-42-1 to 2,310 mg/kg in SB-44
- Manganese in five samples ranging from 318 mg/kg in SB-42-1 to 4,810 in SB-40
- Mercury in five samples ranging from 0.18 mg/kg in SB-42-1 to 5.5 mg/kg in SB-44
- Nickel in five samples ranging from 19.9 mg/kg in SB-41 to 71.8 mg/kg in SB-43
- Silver in three samples ranging from 0.86 mg/kg in SB-43 to 1.3 mg/kg in SB-44
- Zinc in five samples from 312 mg/kg in SB-42-1 to 1,270 mg/kg in SB-43

In summary, with the exception of SS-37A, at least one PAH and/or inorganic were detected in all surface soil samples collected from the former Norwood Sanitary Landfill at concentrations significantly above background (based on comparable background samples analyzed by SIM), documenting an area of observed contamination. Additionally, five of the ten subsurface and eight of the ten subsurface soil samples contained concentrations of PAHs or inorganics, respectively, significantly above background (based on comparable background samples analyzed by SIM). In four of the nine surface soil samples and two of the subsurface soil samples, PCBs were detected at concentrations significantly above background and as high as 63,000 µg/kg in sample SS-43. Surface soil samples SS-43 and SS-44 and subsurface soil samples SB-42 and SB-43 containing the highest concentrations for the majority of the constituents. Dioxins and furans were detected in the one sample analyzed for these constituents. Pesticides were detected at concentrations significantly above background in four of the nine surface soil samples and five of the 10 subsurface soil samples.

### **Norwood Park and Winona Homes Right-of Way**

VOCs were not detected above the CRQL in the three surface and subsurface soil samples collected from the Norwood Park and the Winona Homes right-of-way or not detected at concentrations significantly above background, with the exception of the concentration of acetone in surface soil sample SS-25 at 14 µg/kg (**Table 4**).

PAHs and SVOCs were not detected above the CRQL in the three surface and subsurface soil samples collected from the Norwood Park and the Winona Homes right-of-way or not detected at concentrations significantly above background (**Table 4**).

PCBs and pesticides were not detected above the CRQL in the three surface and subsurface soil samples collected from the Norwood Park and the Winona Homes right-of-way or not detected at concentrations significantly above background (**Table 5**).

Inorganics were not detected in the surface and subsurface soil samples collected from the Norwood Park and the Winona Homes right-of-way or not detected at concentrations significantly above background, with the exception of mercury at 0.11 mg/kg in surface soil sample SS-24, the concentration of calcium at 713 mg/kg in subsurface soil sample SB-24, and the concentration of thallium at 0.57 mg/kg in subsurface soil sample SS-23 (**Table 7**).

In summary, with the exception of acetone and mercury detected in one sample each at concentrations significantly above background, samples collected from Norwood Park and the Winona Homes right-of-way did not contain concentrations of contaminants significantly above background; therefore, an area of observed contamination was not documented with respect to these areas.

### 5.1.2 Residential Soil Sampling

The analytical results for the residential soil sampling areas are discussed below. Soil samples were analyzed for PAHs by means of SIM analysis to achieve lower detection limits and by routine SVOC analysis which has higher detection limits as PAHs are a subgroup of SVOCs. The tables summarizing the SVOCs analytical results include the analytical results from both methods. Because the SIM method has lower detection limits, PAHs may be detected in soil samples using the SIM method but not detected in the same sample when analyzed by the routine SVOC analysis method.

**Figures 6A** through **6D** show the sample locations that contain concentrations of PAHs, PCBs, pesticides, or metals, respectively, significantly above background (i.e., three times background levels) in the soil samples collected from residential properties in November 2020, as discussed below.

As shown on **Table 8**, VOCs were detected in soil samples collected from 13 of the 57 properties within Winona Homes neighborhood at concentrations significantly above background: five surface soil samples (SS-105, SS-119, SS-126, SS-127, and SS-146) contained acetone ranging from 13 µg/kg to 28 µg/kg and one surface soil sample (SS-118) contained methyl acetate at a concentration of 9.1 µg/kg; three shallow subsurface soil samples (SB-107, SB-121, and SB-138) contained acetone ranging from 13 µg/kg to 33 µg/kg and one shallow subsurface soil samples (SB-128) contained tetrachloroethylene (PCE) at a concentration of 12 µg/kg; one deep subsurface soil sample (DB-103) contained concentrations of acetone

at 33 µg/kg and three deep subsurface soil samples (DB-143, DB-146-01, and DB-147) contained concentrations of methylene chloride ranging from 8 µg/kg to 20 µg/kg.

Soil samples were analyzed for PAHs by means of SIM analysis to achieve lower detection limits, and by routine SVOC analysis, with the exception of surface soil sample SS-161 and composite surface soil samples CS-116, CS-140, and CS-169. Samples SS-161, CS-140, and CS-169 were not analyzed by SIM due to elevated concentrations above method capability. Summary of the detected PAHs and SVOCs above the CRQL is provided in **Table 8**.

Six surface soil and two shallow subsurface soil sample collected from seven of the 57 properties within the Winona Homes neighborhood contained concentrations of at least one low-level PAH by SIM above comparable background samples analyzed by SIM (**Table 8**). However, it should be noted, one of the surface soil background samples SS-161, was not analyzed by SIM due to elevated concentrations of PAHs. The composite surface soil samples and deep subsurface soil samples did not contain low-level PAHs by SIM significantly above background. Four surface soil, six composite, and one shallow subsurface soil sample collected from ten of the 57 properties within the Winona Homes neighborhood analyzed by routine SVOCs methods detected SVOCs at concentrations significantly above background. The deep subsurface soil samples did not contain concentrations of SVOCs by routine analysis significantly above background.

SVOCs/PAHs detected by routine or SIM analysis at concentrations significantly above background in surface soil samples include the following:

- Anthracene in one sample at 310 µg/kg in SS-154
- Benzo(a)anthracene in three samples ranging from 900 µg/kg in SS-109 to 2,400 µg/kg in sample SS-154
- Benzo(a)pyrene in three samples ranging from 790 µg/kg in SS-109 to 1,800 µg/kg in sample SS-154
- Benzo(b)fluoranthene in four samples ranging from 1,100 µg/kg in SS-105 to 2,600 µg/kg in sample SS-154
- Benzo(k)fluoranthene in one sample at 940 µg/kg in SS-154
- Benzo(g,h,i)perylene in six samples ranging from 410 µg/kg in SS-105 to 1,300 µg/kg in sample SS-154
- Bis(2-ethylhexyl)phthalate in three samples ranging from 270 µg/kg in SS-114 1,400 µg/kg in SS-102 and SS-134
- Butylbenzylphthalate in one sample at 6,400 µg/kg in SS-121
- Chrysene in three samples ranging from 850 µg/kg in SS-109 to 3,000 µg/kg in sample SS-154
- Dibenzo(a,h)anthracene in four samples ranging from 120 µg/kg in SS-105 to 400 µg/kg in sample SS-154
- Fluoranthene in three samples ranging from 2,000 µg/kg in SS-109 to 4,400 µg/kg in sample SS-154
- Fluorene in one sample at 71 µg/kg in SS-154

- Indeno(1,2,3-cd)pyrene in four samples ranging from 390 µg/kg in SS-105 to 1,300 µg/kg in sample SS-154
- Naphthalene in one sample at 7.5 µg/kg in SS-125
- Phenanthrene in three samples ranging from 1,100 µg/kg in SS-109 to 1,700 µg/kg in sample SS-154
- Pyrene in three samples a ranging from 1,700 µg/kg in SS-109 to 3,500 µg/kg in sample SS-154

SVOCs/PAHs detected by routine or SIM analysis at concentrations significantly above background in composite surface soil samples include the following:

- Bis(2-ethylhexyl)phthalate in six samples ranging from 250 µg/kg in CS-127 to 2,900 µg/kg in CS-134
- Butylbenzylphthalate in two samples ranging from 42 µg/kg in CS-122 to 27,000 µg/kg in CS-134
- Dimethyl phthalate in one sample at 620 µg/kg in CS-134

SVOCs/PAHs detected by routine or SIM analysis at concentrations significantly above background in shallow subsurface soil samples include the following:

- Acenaphthene in one sample at 91 µg/kg in SB-128
- Acenaphthylene in one sample at 120 µg/kg in SB-128
- Anthracene in one sample at 750 µg/kg in SB-128
- Benzo(a)anthracene in one sample at 2,000 µg/kg in SB-128
- Benzo(a)pyrene in one sample at 1,200 µg/kg in SB-128
- Benzo(b)fluoranthene in one sample at 1,500 µg/kg in sample SB-128
- Benzo(k)fluoranthene in one sample at 590 µg/kg in SB-128
- Benzo(g,h,i)perylene in one sample at 570 µg/kg in SB-128
- Chrysene in one sample at 1,500 µg/kg in SB-128
- Dibenzo(a,h)anthracene in one sample at 250 µg/kg in sample SB-128
- Fluoranthene in one sample at 3,000 µg/kg in SB-128
- Fluorene in one sample at 94 µg/kg in SB-128
- Indeno(1,2,3-cd)pyrene in one sample at 550 µg/kg in SB-128
- 2-Methylnaphthalene in two samples ranging from 4.7 µg/kg in SB-110 to at 75 µg/kg in SB-128
- Naphthalene in two samples ranging from 14 µg/kg in SB-110 to 63 µg/kg in SB-128
- Phenanthrene in one sample at 2,500 µg/kg in SB-128
- Pyrene in one sample at 3,200 µg/kg in SB-128

PCBs were detected in soil samples collected from two of the 57 properties within Winona Homes neighborhood at concentrations significantly above background (**Table 9**). Composite surface soil sample CS-153 contained 150 µg/kg of Aroclor-1254 and shallow subsurface soil sample SB-128 contained 540 µg/kg Aroclor-1260. Additionally, the surface soil sample, SS-141 (and duplicate SS-141-1), contained concentrations of Aroclor-1254 above the CRQL at 47 µg/kg and 73 µg/kg, respectively. However, the concentrations in SS-141 are not significant with respect to background due to the fact that two surface soil samples (SS-161 and SS-164) collected as background from neighborhoods outside of Winona Homes

contained concentrations of PCBs. Surface soil sample SS-161 contained 200 µg/kg Aroclor-1248 and 290 µg/kg Aroclor-1254 and sample SS-164 contained 52 µg/kg Aroclor-1254.

Pesticides were detected in soil samples (21 surface, 20 composite, and 2 shallow subsurface) collected from 31 of the 57 properties within Winona Homes at concentrations significantly above background (**Table 9**). However, as shown on **Table 9** and discussed further in the attached data validation reports, some of the analytical results are unusable. The sample results were rejected during validation due to significant deficiencies in meeting QC criteria; specifically, a number of analytes in the samples had results greater than the CRQL with Percent Difference (%D) greater than 200% between the dual column analyses. The large %D between the two results may indicate interferences impacting the analyte.

Inorganics were detected in soil samples (4 surface, 3 composite, 4 shallow subsurface, and 4 deep subsurface) collected from 14 of the 57 properties within Winona Homes at concentrations significantly above background (**Table 10**).

Inorganics detected at concentrations significantly above background in surface soil samples include the following:

- Arsenic in one sample at 19.3 mg/kg in SS-101
- Calcium in one sample at 26,900 mg/kg in SS-149
- Chromium in one sample at 366 mg/kg in SS-131
- Magnesium in two samples ranging from 5.960 mg/kg in SS-105 to 16,500 mg/kg in SS-131

Inorganics detected at elevated concentrations in composite surface soil samples include the following:

- Chromium in one sample at 178 mg/kg in CS-131
- Copper in one sample at 824 mg/kg in CS-104-1
- Magnesium in one sample at 8,230 mg/kg in CS-146

Inorganics detected at elevated concentrations in shallow subsurface surface soil samples include the following:

- Cadmium in one sample at 4.3 mg/kg in SB-128
- Calcium in one sample at 8,410 mg/kg in SB-28
- Copper in two samples ranging from 77.9 mg/kg in SB-110 to 412 mg/g in SB-128
- Lead in two samples ranging from 161 mg/kg in SB-129 to 1,070 mg/kg in SB-128
- Manganese in one sample at 2,060 mg/kg in SB-147
- Nickel in one sample at 49.1 mg/kg in SB-128
- Silver in one sample at 1.4 mg/kg in SB-128
- Zinc in one sample at 797 mg/kg in SB-28

Inorganics detected at elevated concentrations in deep subsurface soil samples include the following:

- Arsenic in three samples ranging from 4.9 mg/kg in DB-143 to 6.9 mg/kg in DB-136
- Barium in one sample at 214 mg/kg in DB-119
- Beryllium in one sample at 1.5 mg/kg in DB-119
- Chromium in one sample at 6.3 mg/kg in DB-119
- Cobalt in one sample at 27.5 mg/kg in DB-119
- Copper in one sample at 18.1 mg/kg in DB-115
- Iron in one sample at 66,000 mg/kg in DB-119
- Nickel in one sample at 51.5 mg/kg in DB-119
- Potassium in two samples ranging from 3,190 mg/kg in DB-115 to 7,690 mg/kg in DB-119
- Vanadium in one sample at 94.1 mg/kg in DB-119
- Zinc in one sample at 160 mg/kg in DB-119

In summary, at least one PAH, PCB, pesticide, and/or inorganic such as arsenic, cobalt, chromium, copper, lead, or manganese were detected at concentrations significantly above background (based on comparable background samples analyzed by SIM) from 39 of the 57 properties, documenting an area of observed contamination within Winona Homes as follows:

- PAHs at SS-105, SS-109, SS-110, SS-144, SS-149, SS-154, and SB-128
- Pesticides at CS-101, SS/CS-102, CS-103, SS/CS-104, SS/CS-105, SS-106, SB-111, CS-113, CS-114, CS-116, SS/CS-119, SS/CS-120, SS-122, CS-123, SS/CS-124, CS-127, SB-128, SS-135, SS-136, SS/CS/SB-138, SS-141, SS-145, SS-149, SS/CS-151, SS/CS-153, SS-154, SS/CS-155, SS-168, CS-169
- PCBs at CS-153, SB-128 (\*location SS-141 and background locations SS-161 and 164 also contained concentrations of PCBs).
- Metals at SS-101, CS/SS-131, SB-110, SB-128, SB-129, SB-147, DB-115, DB-119, DB-136, and DB-143

\*Note: background sample SS-161 was not analyzed for PAHs by SIM due to elevated concentrations of PAHs.

## 5.2 GROUNDWATER PATHWAY

Groundwater samples GW04, collected in the former Old Norwood Dump, and GW06, collected at the northern boundary of the former Norwood Sanitary Landfill/southern boundary of Winona Homes, contained concentrations of chloromethane significantly above background at 0.82 micrograms per liter ( $\mu\text{g/l}$ ) and an estimated concentration of 0.76  $\mu\text{g/l}$ , respectively (**Table 11**). Additionally, sample GW06 and its duplicate, contained concentrations of chloroform above background at 0.59  $\mu\text{g/l}$  and 0.64  $\mu\text{g/l}$ , respectively. Chloromethane and chloroform were not detected in collected source/soil samples; therefore, the presence of these substances in the groundwater is not attributable to sources present at the Site.

SVOCs, pesticides, and PCBs were not detected above the CRQL in the groundwater samples or not detected at concentrations significantly above background.

Groundwater sample GW03, collected in the Winona Homes neighborhood, contained concentrations of arsenic above background at 2.5 µg/l (**Table 12**). Groundwater sample GW04, collected in the former Old Norwood Dump, contained concentrations of cadmium, lead, and zinc at concentrations above background at 2.9 µg/l, 37.9 µg/l, and 833 µg/l, respectively (**Table 12**). Remaining samples did not contain concentrations of metals significantly above background. Arsenic, cadmium, lead, and zinc were also detected in the collected source/soil samples; therefore, an observed release to the groundwater migration pathway has been documented.

### 5.3 SURFACE WATER PATHWAY

VOCs, SVOCs, pesticides, and PCBs were not detected above the CRQL in the surface water samples or not detected at concentrations significantly above background.

Aluminum was detected in all the surface water samples at concentrations above background ranging from 39.1 µg/l to 155 µg/l (**Table 13**). However, aluminum was not detected in collected source/soil samples; therefore, the presence of aluminum in the surface water is not attributable to sources present at the Site. Lead was detected in two surface water samples collected from Muckinipattis Creek (SW-16 and SW-18) at concentrations significantly above background at 1.5 µg/l and 2 µg/l, respectively. Lead was also detected in collected source/soil samples documenting an observed release to the surface water migration pathway.

Two VOCs, 2-butanone and acetone, were detected in three sediment samples (SD-17, SD-19, and SD-20) at concentrations significantly above background (**Table 14**). Concentrations of 2-butanone ranged from 16 µg/kg to an estimated concentration of 60 µg/kg and concentrations of acetone ranged from 70 µg/kg to 240 µg/kg. SD-17 was collected in the Muckinipattis Creek and samples SD-19 and SD-20 were collected in the wetland area adjacent to the former Old Norwood Dump. 2-butanone was not detected in collected source/soil samples; therefore, the presence of this substance in the sediment is not attributable to sources present at the Site. Additionally, acetone is a common lab contaminant and is not expected to be a contaminant of concern associated with Site sources.

Dimethylphthalate was the only SVOC detected at concentrations significantly above background in the sediment samples (**Table 14**). Samples SD-22 and SD-23, collected in the wetland area downstream from the former Norwood Sanitary Landfill, contained 3,100 µg/kg and 1,300 µg/kg of dimethylphthalate,



respectively. Dimethylphthalate was also detected in the collected source/soil samples; therefore, an observed release to the surface water migration pathway has been documented.

Pesticides, and PCBs were not detected above the CRQL in the sediment samples or not detected at concentrations significantly above background.

Sediment sample SD-18 collected adjacent to the fishing pier in the Muckinipattis Creek contained concentrations of calcium and magnesium significantly above background at 9,930 mg/kg and 7,500 mg/kg, respectively (**Table 15**). Sample SD-19 collected in the wetland area adjacent to the former Old Norwood Dump contained concentrations of calcium (9,410 mg/kg) and silver (1.4 mg/kg) significantly above background. Sediment sample SD-20 collected in wetland area adjacent to the former Old Norwood Dump contained the following metals at concentrations significantly above background: barium (277 mg/kg), cadmium (8.6 mg/kg), calcium (11,300 mg/kg), chromium (907 mg/kg), copper (364 mg/kg), mercury (2 mg/kg), nickel (976 mg/kg), silver (40.3 mg/kg), and zinc (1,560 mg/kg). Sediment sample SD-22 collected in the wetland area downstream from the former Norwood Sanitary Landfill contained the following metals at concentrations significantly above background: aluminum (37,100 mg/kg), beryllium (2 mg/kg), barium (267 mg/kg), cadmium (2.2 mg/kg), calcium (10,300 mg/kg), copper (288 mg/kg), iron (47,600 mg/kg), lead (198 mg/kg), magnesium (8,150 mg/kg), manganese (1,140 mg/kg), silver (1.7 mg/kg), sodium (687), vanadium (99), and zinc (681 mg/kg). Arsenic, barium, cadmium, copper, iron, lead, manganese, silver, and zinc were also detected in collected source/soil samples documenting an observed release to the surface water migration pathway.

**Figure 7** shows the surface water and sediment sampling locations that contain concentrations of substances significantly above background (i.e., three times background levels) for substances that were also detected at concentrations significantly above background in soil samples.

## 6.0 HUMAN HEALTH RISK ASSESSMENT

### 6.1 INTRODUCTION

As stated in the introduction to this ESI report, the purpose of an ESI is to collect sufficient information concerning the conditions at the Site to assess the relative threat posed to human health and the environment by actual or potential release of hazardous substances attributable to the Site and to determine the need for additional action under CERCLA based on criteria set forth in EPA's Hazard Ranking System (HRS) Final Rule. The primary means of evaluating data for HRS purposes is determining significance above background, that is determining whether constituents are present at concentrations greater than three times those found in areas believed not to have been impacted by activities at the Site. Since community concerns were raised, EPA took an additional step to help assist with determining if the constituents detected at the Site presented a risk to human health by performing risk-ratio screening (i.e., streamlined risk assessment) and detailed site-specific risk assessment when risk-ratio screening results exceeded the target risk criteria.

The purpose of this section is to evaluate potential human health risks and hazards associated with exposure to Site-related constituents where human receptors may be exposed to soil, groundwater, surface water, and sediment. The objectives of the Human Health Risk Assessment (HHRA) were as follows:

- To evaluate whether Site-related constituents detected in environmental media pose potentially unacceptable risks to potential human receptors
- To provide information to support decisions regarding need for further evaluation

This HHRA consists of a comparison of individual sample analytical results to default Human Health Screening Levels (HHSLs) (i.e., EPA RSLs). The most conservative HHSLs for residential use were used. In the context of the regulatory risk assessment process, potential effects of chemicals are separated into two types: carcinogenic and non-carcinogenic. This separation relates to current EPA policy where mechanisms of action for these endpoints differ. Contaminants of potential concern (COPCs) are evaluated for both carcinogenic and non-carcinogenic risks. If the maximum detected constituent concentration was less than its conservative screening criterion, the constituent was eliminated as a COPC. If the maximum detected constituent was less than three times the background, the constituent was eliminated as a COPC unless the contaminant is 2,3,7,8-tetrachlorodibenzo-p-dioxin (also known as dioxin) because background samples were not analyzed for this constituent. Results from COPCs that exceed screening levels and three times the background do not indicate an unacceptable risk. Rather, these results indicate the need for further evaluation in the risk assessment.

The Site consists of several Areas of Concern (AOC)/Exposure Areas as designated by the residents: the former Old Norwood Dump (Exposure Area 1), the former Norwood Sanitary Landfill (Exposure Area 2), and the Winona Homes neighborhood (Exposure Area 3) because of the unknown origin of fill used during construction.

To evaluate risk posed to human health based on exposure to contaminants present in environmental media, all samples collected by EPA from the Site from September through November 2020 as part of the ESI and in September 2017 and May 2018 as part of the SI were assessed with respect to this HHRA.

The 2020 sampling included the collection of shallow composite and grab surface soil samples (0.0 to 0.5 below ground surface [bgs]), subsurface (2 to 4 feet bgs) soil samples, and deep (8 to 10 feet bgs) subsurface soil samples (**Figures 5 and 6 and Tables 4 through 10** in the ESI report). Additionally, groundwater from temporary monitoring wells, surface water, and sediment samples were also collected (**Figure 5 and Tables 11 through 15** in the ESI report).

In 2017, EPA collected samples from Norwood Sanitary Landfill, Muckinipattis and Darby Creeks and in 2018, EPA collected surface soil samples from twenty-one residential properties in Winona Homes and surrounding neighborhoods. The sample location maps and analytical data summary tables for these sampling events are provided in **Appendix D** of this ESI report. **Figure 8** of this ESI report depicts the sample locations of all samples collected from the Norwood Landfill Site as part of the SI conducted in 2017 and 2018, and the ESI conducted in 2020.

Data for each sampling event was evaluated with respect to the background samples collected during that respective sampling event with the exception of the sediment samples collected from wetlands along Darby Creek as part of the 2020 sampling event. A background sediment sample was not collected from Darby Creek during the 2020 sampling event; therefore, these sediment samples were compared to the background sediment sample collected from Darby Creek in 2017. Additionally, residential soil samples collected in 2018 were compared to background residential soil samples collected in 2020. Also, background soil samples were compared to soil samples that were collected at the same comparable depth. For example, surface soil background samples were compared to surface soil samples.

Samples were analyzed for PAHs by means of SIM analysis to achieve lower detection limits and by routine SVOC analysis which has higher detection limits. PAHs are a subgroup of SVOCs. Because the SIM method has lower detection limits, PAHs may be detected in soil samples using the SIM method but not detected in the same sample when analyzed by the routine SVOC analysis method. To determine significance above

background for this HHRA, the highest concentrations of PAHs detected in the samples from either analysis was used. For instance, residential background sample SS-161 was not analyzed by SIM; therefore, the analytical results by routine SVOC analysis were used for comparison to residential soil samples collected from Exposure Area 3 (Winona Homes).

The current land use is a mix of residential, recreational (i.e., park), overgrown wooded areas, and the DELCORA pumping station. Future land use is not anticipated to change.

## 6.2 DATA SCREENING

The soil and groundwater analytical results that were detected at concentrations significantly above background were compared to EPA RSLs for residential soil and residential tap water (e.g., groundwater) based on target cancer risk of 1E-06 and target hazard quotient of 0.1 (Refs. 36). The surface water and sediment analytical results that were detected at concentrations significantly above background were compared to ten times the tap water and residential soil RSLs since surface water and sediment RSLs are not available and the exposure to sediment and surface water would likely be lower than exposure to tap water and soil. Additionally, groundwater samples were compared to EPA Vapor Intrusion Screening Levels (VISL) to evaluate potential risk associated with vapor intrusion from VOCs that may be present in groundwater. EPA RSLs/VISLs are generic risk-based concentrations that are intended to assist risk assessors in initial screening level evaluations. RSLs/VISLs combine human health toxicity values with standard exposure pathway (i.e., ingestion, dermal, and inhalation) factors to estimate contaminant concentrations in environmental media (soil, air, and water).

### 6.2.1 Soils

The following contaminants were above the data screening criteria described above in Section 6.2:

#### **Former Old Norwood Dump**

*Surface Soils:* benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, dioxin, manganese, mercury

*Subsurface Soils:* arsenic

### **Former Norwood Sanitary Landfill**

*Surface Soils:* benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, aroclor 1254, aroclor 1260, dioxin, antimony, arsenic, cobalt, iron, lead, manganese and dieldrin.

*Subsurface Soils:* benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, aroclor 1248, aroclor 1260, arsenic, cadmium, cobalt, copper, iron, lead, manganese, mercury, 4, 4,-DDD, aldrin and dieldrin.

### **Winona Homes**

*Surface Soils:* benzo(a)pyrene, indeno(1,2,3-cd)pyrene, aroclor-1254, arsenic, copper, dieldrin, cis-chlordane, trans-chlordane, heptachlor epoxide and aldrin.

*Subsurface Soils:* benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, aroclor-1260, copper, lead and manganese.

*Deep Subsurface Soils:* arsenic, iron and vanadium.

## **6.2.2 Groundwater**

When comparing the maximum detected concentration in groundwater to EPA's tap water RSLs, the following contaminants were above screening levels and above background:

*Groundwater:* arsenic, cadmium, lead, and zinc.

## **6.2.3 Surface Water**

A conservative comparison of maximum concentrations in surface water from Muckinipattis Creek and Darby Creek to risk-based SLs was performed. The maximum concentrations of contaminants detected in surface water samples that were significantly above background did not exceed applicable RSLs; therefore, the data does not indicate human health concerns at the sampled locations.

## **6.2.4 Sediment**

A conservative comparison of maximum concentrations in sediment from Muckinipattis Creek and Darby Creek to risk-based screening levels was performed. The maximum concentrations of contaminants detected

in sediment samples at concentrations significantly above background did not exceed applicable RSLs; therefore, the data does not indicate human health concerns at the sampled locations.

### 6.3 STREAMEDLINED RISK ASSESSMENT

Contaminants that were above screening were assessed for risk using a streamlined risk assessment approach. The streamlined risk assessment sets an upper limit cancer risk of 5E-05 and a target hazard quotient of 0.5, to account for uncertainty since the RSLs are simplified risk calculations and do not incorporate full chemical and Site-specific exposure.

The potential cancer risks from exposure to chemicals were estimated by use of carcinogenic screening levels (SL) as demonstrated in Equation 1:

$$(1) \frac{\text{Exposure point concentration (EPC)}}{\text{Site Cancer Risk (CR)}} = \frac{\text{Carcinogenic SL}}{\text{RSL Risk (1E-06)}}$$

Carcinogenic risk (CR), in the RSL table, is set at a target cancer risk of 1E-06 as shown in Equation 1.

The potential non-carcinogenic risk from exposure to chemicals were estimated by use of non-carcinogenic screening level (SL) as demonstrated in Equation 2:

$$(2) \frac{\text{EPC}}{\text{Site Hazard Index (HI)}} = \frac{\text{Noncarcinogenic SL}}{\text{Hazard Quotient (0.1)}}$$

Non-carcinogenic risk is expressed as Hazard Quotient (HQ), which is set at a threshold of 1.0 or 0.1 if multiple contaminants are present, as shown in Equation 2.

To assess whether the existing COPCs identified in Section 6.2. may pose an unacceptable risk to receptors, the above Equations 1 and 2 were used to determine the overall site cancer risk (CR) and non-cancer risk (expressed as Hazard Index, HI) as summarized in the tables below. A screening-level risk assessment was performed using the same assumptions that are used to generate RSLs. The table below provides a summary of the cumulative CR and HI at each Exposure Area.

The screening level risk results do not indicate human health concerns and instead indicates a more detailed site-specific risk assessment be performed to determine the contaminant that is contributing to risk. See Section 6.4, Site-Specific Risk Assessment.

**Cumulative Streamlined Risk Results Table – Nonresidential**

| COPC                    | RSL (Cancer) | RSL (Noncancer) | Max Old Dump Surface | CR       | HI         | Max Old Dump Subsurface | CR       | HI  | Max Norwood Landfill Surface | CR             | HI         | Max Norwood Landfill Subsurface | CR             | HI         |
|-------------------------|--------------|-----------------|----------------------|----------|------------|-------------------------|----------|-----|------------------------------|----------------|------------|---------------------------------|----------------|------------|
| Benzo(a)anthracene      | 1100         | NL              | 2600                 | 2.36E-06 |            |                         |          |     | 2900                         | 2.64E-06       |            | 7300                            | 6.64E-06       |            |
| Benzo(a)pyrene          | 110          | 1800            | 2200                 | 2.00E-05 | 0.1        |                         |          |     | 2300                         | 2.09E-05       | 0.1        | 4800                            | 4.36E-05       | 0.3        |
| Benzo(b)fluoranthene    | 1100         | NL              | 2600                 | 2.36E-06 |            |                         |          |     | 4700                         | 4.27E-06       |            | 5400                            | 4.91E-06       |            |
| Dibenzo(a,h)anthracene  | 110          | NL              | 440                  | 4.00E-06 |            |                         |          |     | 130                          | 1.18E-06       |            | 760                             | 6.91E-06       |            |
| Indeno(1,2,3-cd)pyrene  | 1100         | NL              | 1300                 | 1.18E-06 |            |                         |          |     | 1400                         | 1.27E-06       |            | 1900                            | 1.73E-06       |            |
| Aroclor-1248            | 230          | NL              |                      |          |            |                         |          |     |                              |                |            | 380                             | 1.65E-06       |            |
| Aroclor-1254            | 240          | 120             |                      |          |            |                         |          |     | 450                          | 1.88E-06       | 0.4        |                                 |                |            |
| Aroclor-1260            | 240          | NL              |                      |          |            |                         |          |     | 63000                        | 2.63E-04       |            | 10000                           | 4.17E-05       |            |
| Dioxin/Furan TEQ        | 4.8          | 5.1             | 9.7                  | 2.02E-06 | 0.2        |                         |          |     | 5.6                          | 1.17E-06       | 0.1        |                                 |                |            |
| Antimony                | NL           | 3.1             |                      |          |            |                         |          |     | 5.9                          |                | 0.2        |                                 |                |            |
| Arsenic                 | 0.68         | 3.5             |                      |          |            | 3.2                     | 4.71E-06 | 0.1 | 32.8                         | 4.82E-05       | 0.9        | 5.7                             | 8.38E-06       | 0.2        |
| Cadmium                 | 2300         | 7.1             |                      |          |            |                         |          |     |                              |                |            | 22.3                            | 9.70E-09       | 0.3        |
| Cobalt                  | 420          | 2.3             |                      |          |            |                         |          |     | 16.3                         | 3.88E-08       | 0.7        | 19.3                            | 4.60E-08       | 0.8        |
| Copper                  | NL           | 310             |                      |          |            |                         |          |     |                              |                |            | 380                             |                | 0.1        |
| Iron                    | NL           | 5500            |                      |          |            |                         |          |     | 136000                       |                | 2.5        | 123000                          |                | 2.2        |
| Lead                    | NL           | 400             |                      |          |            |                         |          |     | 1180                         |                |            | 2310                            |                |            |
| Manganese               | NL           | 180             | 508                  |          | 0.3        |                         |          |     | 800                          |                | 0.4        | 4810                            |                | 2.7        |
| Mercury                 | NL           | 1.1             | 1.1                  |          | 0.1        |                         |          |     |                              |                |            | 5.5                             |                | 0.5        |
| 4,4-DDD                 | 2300         | 190             |                      |          |            |                         |          |     |                              |                |            | 250                             | 1.09E-07       | 0.13       |
| Dieldrin                | 34           | 320             |                      |          |            |                         |          |     | 85                           | 2.50E-06       | 0.0        | 540                             | 1.59E-05       | 0.17       |
| Aldrin                  | 39           | 230             |                      |          |            |                         |          |     |                              |                |            | 440                             | 1.13E-05       | 0.19       |
| <b>Cumulative Risk:</b> |              |                 |                      | 3.2E-05  | <b>0.7</b> |                         | 4.7E-06  | 0.1 |                              | <b>3.5E-04</b> | <b>5.4</b> |                                 | <b>1.4E-04</b> | <b>7.6</b> |

**Notes:**

**Bold** denotes an exceedance of EPA’s risk criteria  
 Screening risk assessment for Norwood Sanitary Landfill includes data collected in 2017.  
 Data compared to EPA RSLs for residential soil TR= 1E-06 (cancer) and HQ 0.1 (noncancer) (EPA 2021)  
 Units - µg/kg organics; mg/kg inorganics

µg/kg – micrograms per kilogram  
 mg/kg – milligrams per kilogram  
 COPC – Contaminant of Potential Concern  
 NL – No listed value

RSL – Regional Screening Level  
 CR – Cancer Risk  
 HI – Hazard Index  
 TEQ – Toxic equivalency quotient

**Cumulative Streamlined Risk Results Table – Residential Soil**

| COPC                         | RSL (Cancer) | RSL (Noncancer) | Max Winona Homes Surface | CR             | HI         | Max Winona Homes Shallow Subsurface | CR       | HI         | Max Winona Homes Deep Subsurface | CR       | HI         |
|------------------------------|--------------|-----------------|--------------------------|----------------|------------|-------------------------------------|----------|------------|----------------------------------|----------|------------|
| Benzo(a)anthracene           | 1100         | NL              | 9100                     | 8.27E-06       |            | 2000                                | 1.82E-06 |            |                                  |          |            |
| Benzo(a)pyrene               | 110          | 1800            | 9700                     | 8.82E-05       | 0.54       | 1100                                | 1.00E-05 | 0.1        |                                  |          |            |
| Benzo(b)fluoranthene         | 1100         | NL              | 15,000                   | 1.36E-05       |            | 1500                                | 1.36E-06 |            |                                  |          |            |
| Dibenzo(a,h)anthracene       | 110          | NL              |                          |                |            | 1800                                | 1.64E-05 |            |                                  |          |            |
| Indeno(1,2,3-cd)pyrene       | 1100         | NL              | 6900                     | 6.27E-06       |            |                                     |          |            |                                  |          |            |
| Aroclor-1254                 | 240          | 120             | 150                      | 6.25E-07       | 0.1        |                                     |          |            |                                  |          |            |
| Aroclor-1260                 | 240          | NL              |                          |                |            | 540                                 | 2.25E-06 |            |                                  |          |            |
| Arsenic                      | 0.68         | 3.5             | 19.3                     | 2.84E-05       | 0.6        |                                     |          |            | 5.4                              | 7.94E-06 | 0.2        |
| Copper                       | NL           | 310             | 824                      |                | 0.3        | 412                                 |          | 0.1        |                                  |          |            |
| Iron                         | NL           | 5500            |                          |                |            |                                     |          |            | 66000                            |          | 1.2        |
| Lead                         | NL           | 400             |                          |                |            | 1070                                |          |            |                                  |          |            |
| Manganese                    | NL           | 180             |                          |                |            | 2060                                |          | 1.1        |                                  |          |            |
| Vanadium                     | NL           | 39              |                          |                |            |                                     |          |            | 94.1                             |          | 0.2        |
| Dieldrin                     | 34           | 320             | 2900                     | 8.53E-05       | 0.9        |                                     |          |            |                                  |          |            |
| cis-Chlordane <sup>1</sup>   | 1700         | 3500            | 2600                     | 1.53E-06       | 0.1        |                                     |          |            |                                  |          |            |
| Heptachlor epoxide           | 70           | 100             | 260                      | 3.71E-06       | 0.3        |                                     |          |            |                                  |          |            |
| trans-Chlordane <sup>1</sup> | 1700         | 3500            | 2300                     | 1.35E-06       | 0.1        |                                     |          |            |                                  |          |            |
| Aldrin                       | 39           | 230             | 210                      | 5.38E-06       | 0.1        |                                     |          |            |                                  |          |            |
| <b>Cumulative Risk:</b>      |              |                 |                          | <b>2.4E-04</b> | <b>2.9</b> |                                     | 3E-05    | <b>1.3</b> |                                  | 7.9E-06  | <b>1.6</b> |

**Notes:**

**Bold** denotes an exceedance of EPA’s risk criteria

Screening risk assessment for Norwood Sanitary Landfill includes data collected in 2017.

Data compared to EPA RSLs for residential soil TR= 1E-06 (cancer) and HQ 0.1 (noncancer) (EPA 2021)

<sup>1</sup>The RSL values in table are for Chlordane

Units - µg/kg organics; mg/kg inorganics

µg/kg – micrograms per kilogram

mg/kg – milligrams per kilogram

COPC – Contaminant of Potential Concern

CR – Cancer Risk

HI – Hazard Index

NL – No listed value

RSL – Regional Screening Level



### 6.3.1 Soil

#### **Former Old Norwood Dump**

Surface soil has a non-cancer HI of 0.7, which is above the screening-level target hazard, HQ of 0.5. However, individual contaminant non-cancer risk is below the non-cancer threshold of 0.5 when evaluating risk using target organ specific analysis, (e.g., contaminants contributing to risk did not share the same target organ which indicated non-cancer risk is acceptable). Cancer risk from surface soil is CR of  $3.2E-05$  and for subsurface soil is CR of  $4.7E-06$ , which are both below the cancer screening-level of  $5E-05$ . Additionally, subsurface soil has a non-cancer HI of 0.1, which is below the streamlined target risk level.

#### **Former Norwood Sanitary Landfill**

Surface and subsurface soils have a non-cancer HI of 5.4 and 7.6, respectively, which are above the screening-level target hazard, HQ of 0.5. Cancer risk from surface and subsurface soils are  $3.5E-04$  and  $1.4E-04$  (surface and subsurface soils, respectively), which are above the cancer screening-level of  $5E-05$ . Following EPA guidelines, risk exceedance indicates a more detailed site-specific risk assessment should be performed to assure the appropriate receptors and site-specific information is included in the risk assessment analysis. The results from the site-specific assessment are located in the next section, Section 6.4.

#### **Winona Homes**

Surface soils (grab or composite), shallow subsurface, and deep subsurface soil had non-cancer HIs of 2.9, 1.3, and 1.6, respectively, which are above the screening-level target hazard, HQ of 0.5. Cancer risk from surface soil (grab or composite) had a cancer risk of  $2.4E-4$ , which is above the cancer screening level of  $5E-05$ . Cancer risk from subsurface soil, CR  $3E-05$ , and deep subsurface soil,  $7.9E-06$ , are below the cancer screening-level of  $5E-05$ . Following EPA guidelines, risk exceedance indicates a more detailed site-specific risk assessment should be performed to assure the appropriate receptors and site-specific information is included in the risk assessment analysis. The results from the site-specific assessment are located in the next Section 6.4 and Attachment 2.

### 6.3.2 Groundwater

Groundwater cancer risk is below the cancer screening level with a CR of  $4.8E-05$  and non-cancer risk exceeds the screening-level target hazard, HI of 1.1. However, individual contaminant non-cancer risk is below the non-cancer threshold of 0.5 for all individual contaminants. However, there are no

targets/receptors associated with groundwater because groundwater is not used for drinking within 4-miles of the Site.

**Cumulative Streamlined Risk Results Table – Groundwater**

| Contaminant of Potential Concern (COPC) | Concentration (ug/L) | Tap water RSL (Non-cancer, HQ=0.1) | Tapwater RSL (Cancer) | Non-cancer Risk (HI) | Cancer Risk (CR) |
|---|----------------------|------------------------------------|-----------------------|----------------------|------------------|
| Arsenic                                 | 2.5                  | 0.6                                | 5.2E-02               | 0.42                 | 4.8E-05          |
| Cadmium                                 | 2.9                  | 0.92                               | NL                    | 0.32                 |                  |
| Lead                                    | 37.9                 | 15                                 | NL                    |                      |                  |
| Zinc                                    | 833                  | 600                                | NL                    | 0.14                 |                  |
| <b>Cumulative Risk</b>                  |                      |                                    |                       | <b>1.1</b>           | 4.8E-05          |

**Notes:**

**Bold** denotes an exceedance of EPA's risk criteria

Data compared to EPA RSLs for residential soil TR= 1E-06 (cancer) and HQ 0.1 (noncancer) (EPA 2021)

µg/L – micrograms per liter

COPC – Contaminant of Potential Concern

NL – No listed value

RSL – Regional Screening Level

CR – Cancer Risk

HI – Hazard Index

As shown on **Table 11**, low-level of VOCs such as chloroform, chloromethane, 1,2-cis-dichloroethene, xylene, methyl tert-butyl ether, tetrachloroethane, and trichloroethene were detected in groundwater samples; however, the detected concentrations are below EPA Residential VISLs and thus were not included in the above streamlined risk evaluation.

### 6.3.3 Surface Water

A conservative comparison of maximum concentrations in surface water from Muckinipattis Creek and Darby Creek to risk-based SLs was performed. The maximum concentrations of contaminants detected in surface water samples that were significantly above background did not exceed applicable RSLs; therefore, the data does not indicate human health concerns at the sampled locations.

### 6.3.4 Sediment

A conservative comparison of maximum concentrations in sediment from Muckinipattis Creek and Darby Creek to risk-based screening levels was performed. The maximum concentrations of contaminants detected in sediment samples at concentrations significantly above background did not exceed applicable RSLs; therefore, the data does not indicate human health concerns at the sampled locations.

## 6.4 SITE-SPECIFIC RISK ASSESSMENT

EPA performed site-specific risk assessments at identified exposure areas where risk (non-cancer or cancer) was exceeded. During the site-specific risk assessment, EPA sets the acceptable cancer risk between 1E-6 to 1E-4 (or less) and the acceptable target hazard quotient (noncancer risks) is 1 or less. It is important to note, the set target non-cancer and cancer criteria for the site-specific risk assessment is not the same target screening-level criteria set in the streamlined risk assessment. As stated in Section 6.3, the set target criteria during the streamlined risk evaluation are more conservative since the evaluation is not site-specific. In addition, since all soils results were compared to residential screening levels, the most conservative receptor to evaluate, the site-specific risk assessment more clearly determines if a pathway is complete or incomplete for an identified receptor.

The following are the site-specific risk results:

### **Former Old Norwood Dump**

A site-specific risk assessment was not performed at the former Old Norwood Dump because the streamlined risk results, non-cancer and cancer, were found to be below EPA's acceptable criteria.

### **Former Norwood Sanitary Landfill**

A site-specific risk assessment was performed at the former Norwood Sanitary Landfill since the streamlined risk results exceeded the non-cancer and cancer target screening level.

Risk was calculated using the maximum detected surface soils concentration identified in soil samples collected during both the 2020 ESI and the 2017 SI (**Tables 4, 5, 6, and 7 and Appendix D**). Although residential housing is located adjacent to the landfill, there are no residential structures on the landfill; therefore, this represents an incomplete exposure pathway to resident. However, adult workers and teenage visitors/recreators/trespassers could come into contact with the surface soils representing a complete exposure pathway. Therefore, risks were calculated for the adult workers and teenage visitors/recreators/trespassers.

As shown in the table below, when evaluating risk from surface soil exposure to adult worker and teenage-visitor/recreator/trespasser all risk is acceptable with the exception of cancer risks to the teenage-visitor/recreator/trespasser from chromium due to a single maximum detection of 234 mg/kg at location SS-43. The next highest chromium detection is 42.4 mg/kg at location SS-44. When assessing risk using the second highest detection of 42.4 mg/kg, risks to teenage visitors/recreators/trespassers are within or at EPA's

acceptable risk criteria. It should be noted, all chromium concentrations in landfill surface soils were within background surface soil concentrations, with the exception of these two sampling locations.

As noted in Section 6.5, when performing the site-specific risk assessment, 100 % of chromium is assumed to present in its hexavalent form. This is done to error on the side of conservatism since hexavalent chromium is carcinogenic, even though chromium is most commonly present in its less toxic trivalent form. EPA recommends chromium speciation to verify the presence and levels of chromium.

**Former Norwood Sanitary Landfill Surface Soil Table**

| COPC's based on screening to RSL's | EPC/Maximum Detected Value Above Background (mg/kg) | Worker HI | Worker Cancer Risks | Visitor Recreator Trespasser HI | Teenage Visitor Recreator Trespasser Cancer Risks |
|------------------------------------|---|-----------|---------------------|---------------------------------|---|
| Benzo(a)anthracene                 | 2.9   | -         | 1.2E-07             | -                               | 3.2E-07   |
| Benzo(a)pyrene                     | 2.3   | 9.2E-03   | 9.8E-07             | 1.6E-02                         | 2.5E-06   |
| Benzo(b)fluoranthene               | 4.7   | -         | 2.0E-07             | -                               | 5.1E-07   |
| Dibenz(a,h) anthracene             | 0.13  | -         | 5.5E-08             | -                               | 1.4E-07   |
| Indeno(1,2,3-cd) pyrene            | 1.4   | -         | 6.0E-08             | -                               | 1.5E-07   |
| TCDD                               | 5.6E-06   | 7.0E-03   | 2.3E-07             | 1.2E-02                         | 1.5E-07   |
| Aroclor 1254                       | 0.45  | 2.8E-02   | 3.9E-07             | 4.7E-02                         | 2.7E-07   |
| Aroclor 1260                       | 63  | -         | 5.5E-05             | -                               | 3.8E-05   |
| Dieldrin                           | 0.085   | 6.8E-03   | -                   | 1.2E-02                         | -   |
| Antimony                           | 5.9   | 1.1E-02   | -                   | 2.0E-02                         | -   |
| Arsenic                            | 32.8  | 9.5E-02   | 1.5E-05             | 1.6E-01                         | 1.0E-05   |
| <b>Hexavalent Chromium</b>         | 234   | 1.6E-01   | 8.6E-05             | 2.8E-01                         | <b>2.6E-04</b>                                    |
| Cobalt                             | 16.3  | 4.4E-02   | -                   | 7.5E-02                         | -   |
| Iron                               | 136,000   | 1.6E-01   | -                   | 2.7E-01                         | -   |
| Manganese                          | 800   | 5.3E-02   | -                   | 9.0E-02                         | -   |
|                                    |   |           |                     |                                 |   |
| <b>Total Risks</b>                 |   | 5.7E-01   | <b>1.6E-04</b>      | 9.8E-01                         | <b>3.1E-04</b>                                    |

**Bold** denotes an exceedance of EPA's risk criteria.

### Winona Homes

A site-specific risk assessment was performed at the Winona Homes since the streamlined risk results exceeded the non-cancer and cancer target screening level.

Risk was calculated using the maximum detected concentrations for surface soils (composite and grab), shallow subsurface and deep subsurface soils. Individual risk assessments on the residential properties within the Winona Homes neighborhood, that were sampled as part of the ESI, were assessed for risk. EPA default

exposure parameters for the Adult, Child and Lifetime Resident were used to calculate risk. (**Attachment 2**).

EPA's evaluation concluded, for all samples with total risk at or above the lifetime CR level of concern, the CR was almost entirely due to chromium. Since chromium speciation was not performed, it is uncertain if chromium is present in the trivalent or hexavalent form (or combination). If the chromium is not completely hexavalent, then the risk would be considerably lower. Moreover, even if chromium presence is entirely hexavalent, it appears these levels of chromium are consistent with background, with the exception of five residential properties. The Toxicologist recommended conducting additional sampling at these five residential properties for chromium speciation. Two additional properties had total risk at or above the lifetime CR level of concern for chromium; however, the property samples containing the elevated concentrations of chromium were collected at depths of 8 to 10 feet bgs, presenting an incomplete exposure pathway to current residents. One additional property exceeds EPA's non-cancer threshold for manganese for a sample collected at depths of 2 to 4 feet bgs. EPA will update the individual risk assessments at these properties based on the results of the additional sampling.

Individual residential risk results were sent to property owners and cannot be discussed in this report due to privacy laws. However, the overall risk results for the Winona neighborhood were found to be within EPA's acceptable risk criteria or within background concentrations.

## 6.5 UNCERTAINTIES AND DATA GAPS

The streamlined risk assessment screening processes used was conservative and simplified approach therefore some degree of uncertainty is associated with the results. The intent is to bias any estimates high to ensure protectiveness. Soil samples were not collected throughout the entire former Norwood Sanitary Landfill due to accessibility from overgrown brush and fallen trees. Samples were analyzed for total chromium. For HRS purposes, chromium is evaluated assuming 100% of chromium is present in the trivalent form, unless hexavalent chromium was known to be present or there is information to suggest it could be present on Site. Therefore, the streamlined risk assessment performed was based on RSL values for trivalent chromium. However, when performing risk assessments at NPL Superfund Sites, chromium is evaluated assuming 100% of chromium is present in the more toxic hexavalent form. This is a conservative approach to ensure all potential risks are captured in the assessment. If hexavalent chromium exceeds risk, chromium speciation is recommended to determine how much hexavalent chromium is present, if any.

For the groundwater, surface water, and sediment streamlined risk assessment process, COPCs were identified IF the detected concentration was three times background (or above the background CRQL if the

background concentration was nondetect) AND if that COPC had ALSO been detected in the source (i.e., soil) samples. Therefore, the VOCs detected in the groundwater samples were not included in the risk assessment because these constituents were not detected in collected soil samples. However, the analytical results were compared to EPA VISLs and were found to be below screening levels.

EPA has developed alternative methods to evaluate the potential risk associated with exposure to lead that predicts blood lead (PbB) levels based on exposure and then compares those levels with PbB levels considered protective of human health. The Integrated Exposure Uptake Biokinetic (IEUBK) Model was developed by EPA to estimate the probability of elevated PbB concentrations in children. The IEUBK model was used to calculate EPA's residential soil lead RSL of 400 mg/kg, and the Adult Lead Methodology was used to calculate EPA's industrial soil lead RSL of 800 mg/kg (Ref. 31). Since the lead RSLs are not based on reference dose, a non-carcinogenic HI was not calculated for the Exposure Areas where lead concentrations exceed the RSL. Additionally, EPA is in the process of updating its lead in soil policy and in the interim recommends using a target blood lead level of 5 ug/dl, which equates to a residential soil screening level of 200 mg/kg. Therefore, this lead soil screening value was also considered during this risk evaluation.

Some chemicals are members of the same family and exhibit similar toxicological properties; however, they differ in the degree of toxicity. Therefore, for dioxin, a toxicity equivalence factor (TEF) was applied to adjust the measured concentrations to a toxicity equivalent concentration.

EPA has identified seven carcinogenic PAHs as also being potential mutagens that added together may exceed the risk and hazard level: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. However, per the methods described in Section 6.2, each maximum PAH that is considered a CPOC was evaluated separately for simplicity. In a full evaluation of human risk and hazards, all seven detected carcinogenic PAHs for each individual property would be evaluated together based on a calculated benzo(a)pyrene toxicity equivalence factor for each carcinogenic PAH.

## 6.6 HUMAN HEALTH RISK ASSESSMENT CONCLUSIONS

Surface, shallow subsurface, and deep subsurface soil as well as groundwater, surface water, and sediment samples were collected throughout the identified exposure areas including 70 residential properties within and surrounding Winona Homes. Concentrations that were detected significantly above background (i.e., three times background) were compared to EPA's RSL's and those contaminants that were above RSL's

were assessed for risk using a streamlined risk approach. If the streamlined risk results exceeded the set target screening level, a site-specific risk assessment was conducted.

Risk at the former Old Norwood Dump was found to be below or within EPA's acceptable risk criteria. Risk at the former Norwood Sanitary Landfill exceeded EPA's cancer target risk criteria due to chromium. However, the concentration of chromium contributing to risk is an isolated detection that appears as an outlier compared to other landfill chromium detections. When assessing risk using the next highest concentration, all risk results are below or within EPA's acceptable criteria. In addition, chromium was evaluated assuming it was entirely present in the hexavalent form, which offers an extremely conservative estimate of risk.

Risk at the Winona Homes were also found to be below or within EPA's acceptable risk criteria and/or background concentrations with the exception of five residential properties where hexavalent chromium exceeded risk. The EPA toxicologist recommends chromium speciation be performed to determine the state (trivalent and/or hexavalent) and concentrations of chromium present.

Two additional properties had total risk at or above the lifetime CR level of concern for chromium; however, the samples containing the elevated concentrations of chromium at these properties were collected at depths of 8 to 10 feet bgs presenting an incomplete exposure pathway to current residents. One additional property exceeds EPA's non-cancer threshold for manganese for a sample collected at depths of 2 to 4 feet bgs. EPA will update the individual risk assessments at these properties based on the results of the additional sampling.

Groundwater risk was found to be below or within EPA's acceptable risk criteria. Additionally, potable groundwater is an incomplete exposure pathway to residents and vapor intrusion from groundwater was not identified since all volatile concentrations were below screening.

No risk was identified associated with surface water and sediment. Arsenic concentrations in surface water and sediment exceeded EPA's RSL's; however, the concentrations detected were similar to background.

## 7.0 ECOLOGICAL RISK EVALUATION

### 7.1 INTRODUCTION

The purpose of this section is to evaluate potential ecological risks associated with exposure to Site-related constituents where ecological receptors may be exposed to surface water and sediment. The objectives of the preliminary ecological risk evaluation were as follows:

- To evaluate whether Site-related constituents detected in surface water and sediment samples pose potentially unacceptable risks to potential ecological receptors
- To provide information to support decisions regarding need for further evaluation

This preliminary ecological risk evaluation consists of a comparison of surface water and sediment analytical results to ecological screening values (ESVs). If the maximum detected constituent concentration was less than its ESV, the constituent was eliminated as of potential ecological concern (COPEC). Results from COPECs that exceed screening levels do not in themselves indicate an unacceptable risk. Rather, these results indicate need for further evaluation in the risk assessment.

In September 2020, surface water and sediment samples were collected from the Muckinipattis Creek and Darby Creek (**Tables 13 through 15** of this ESI report). In addition to the recent sampling, EPA had previously collected surface water and sediment samples from Muckinipattis Creek and Darby Creek in 2017 (**Appendix D** of this ESI report) (Ref. 5). For this preliminary ecological risk evaluation, data from all sampling events were evaluated with consideration to significance above the highest background concentrations for each surface water body (NL-2017-SW-01 and NL-2020-SW-13 for Muckinipattis Creek; and NL-SW-2017-03 for Darby Creek). COPECs considered for surface water and sediment only included those contaminants that were also detected in the soil samples collected from the source/exposure areas at concentrations significantly above background (i.e., documented and observed release).

As discussed in **Section 3.3.3** of this ESI, and shown in **Figures 1 and 4**, John Heinz National Wildlife Refuge is located along Darby Creek directly across from the Site. John Heinz National Wildlife Refuge consists of a freshwater tidal marsh that encompasses roughly 285 acres (Ref. 22). Anadromous fish use the tidal streams and rivers and its side channels as nursery habitat for juveniles. Additionally, numerous waterfowl and shorebirds utilize the open water habitats along Darby Creek for migratory stopovers (Ref. 22).



The table below lists the state and federally listed threatened or endangered species known to occur at John Heinz National Wildlife Refuge (Ref. 22).

| Common Name                         | Scientific Name                                | Status       |
|-------------------------------------|--|--------------|
| Least bittern                       | <i>Ixobrychus exilis</i>                       | Endangered-s |
| Yellow-crowned night heron          | <i>Nyctanassa violacea</i>                     | Endangered-s |
| Common tern                         | <i>Sterna hirundo</i>                          | Endangered-s |
| Black tern                          | <i>Chlidonias niger</i>                        | Endangered-s |
| King Rail                           | <i>Rallus elegans</i>                          | Endangered-s |
| Short-eared owl                     | <i>Asio flammeus</i>                           | Endangered-s |
| Loggerhead shrike                   | <i>Lanius ludovicianus</i>                     | Endangered-s |
| Eastern mud turtle                  | <i>Kinosternon subrubrum</i>                   | Endangered-s |
| Northern diamond back terrapin      | <i>Malaclemys terrapin</i>                     | Endangered-s |
| Southern coastal plain leopard frog | <i>Lithobates sphenoccephalus utricularius</i> | Endangered-s |
| Eastern red-belly turtle            | <i>Pseudemys rubriventris</i>                  | Threatened-s |
| Piping plover                       | <i>Charadrius melodus</i>                      | Endangered-f |

**Notes:**

f – Federal

s – State

Additionally, bald eagles (*Haliaeetus leucocephalus*), a former federally listed endangered species that has recovered and been delisted, have historically utilized the refuge for hunting and roosting. The first known bald eagle nest on the refuge was built in 2009 and the first two refuge eaglets successfully hatched in 2010. The pair has returned to breed on the refuge every year since (Ref. 22).

In addition to the federal or state listed threatened or endangered species observed at John Heinz National Wildlife Refuge, three federally listed threatened or endangered species, the Atlantic sturgeon (*Acipenser oxyrinchus*), the bog turtle (*Glyptemys muhlenbergii*), and the sensitive joint-vetch (*Aeschynomene virginica*), are known to occur within Delaware County, along with more than 50 state listed threatened and endangered species including the peregrine falcon (*Falco peregrinus*), the osprey (*Pandion haliaetus*), several additional birds, turtles, and many plants associated with wetland and marshy habitats (Ref. 23).

Portions of the former Old Norwood Dump and former Norwood Sanitary Landfill are immediately adjacent to areas classified as a freshwater emergent wetland and a freshwater forested/shrub wetland (**Figure 4**; Ref. 24). A total of approximately 14.04 miles of wetland frontage are located along Muckinipattis Creek (0.19 mile), Darby Creek (2.58 miles), and Delaware River (11.27 miles) along the 15-mile TDL in the Delaware River (Ref. 24).

## 7.2 DATA SCREENING

The surface water and sediment analytical results that were detected at concentrations significantly above background were compared to EPA Region 3 Biological Technical Assistance Group (BTAG) freshwater screening values (Refs. 32).

The primary objective of the preliminary ecological risk evaluation is to identify COPEC and provide a conservative evaluation of potential for adverse ecological effects related to constituent concentrations in environmental media.

The ecological risks (i.e., hazard quotient [HQ]) associated with potential exposure to chemicals were estimated by use of comparison of the maximum detected concentrations of constituents in exposure media (i.e., EPC) to the EPA Region 3 BTAG screening benchmark (i.e., ESV) as noted in the equation below:

$$HQ = \frac{EPC}{ESV}$$

The HQ threshold value of 1 was used to identify COPECs. Generally, the greater the HQ, the greater the likelihood an effect will occur. Although probabilities cannot be specified based on a point-estimate approach, an HQ of approximately 1 is generally regarded as indicating a low probability of adverse ecological effects. When a constituent has an HQ greater than 1, it is present at levels above its threshold concentration; however, this does not imply that adverse effects will occur—only that adverse effects could occur.

### 7.2.1 Surface Water

A conservative comparison of maximum concentrations to ecological screening values was performed. As previously stated, surface water analytical results were compared to EPA Region 3 BTAG screening benchmarks for freshwater. The COPECs in surface water samples (copper and lead) were detected at concentrations significantly above background and in exceedance of the applicable ESV in one surface water sample collected from Darby Creek.

To assess whether the existing contamination may pose an unacceptable risk to ecological receptors, the equation in Section 7.2 was used to determine the HQ associated with each COPEC as summarized in the table below.

### Ecological Screening Risk – Surface Water

| Analyte Name                | Maximum Concentration | Units | Location of Maximum Concentration | Number of Samples Exceeding the Screening Value/<br>Number of Samples <sup>1</sup> | Screening Value | Hazard Quotient |
|-----------------------------|-----------------------|-------|-----------------------------------|--|-----------------|-----------------|
| Surface Water - Darby Creek |                       |       |                                   |  |                 |                 |
| Copper                      | 15                    | µg/l  | NL-2017-SW-11                     | 1/1  | 9               | 1.67            |
| Lead                        | 25                    | µg/l  | NL-2017-SW-11                     | 1/1  | 2.5             | 8.33            |

Notes:

<sup>1</sup> Only includes locations where an observed release has been documented

Preliminary ecological risk evaluation for Norwood Landfill includes data collected in 2017.

Screening values are EPA R3 BTAG values for freshwater and freshwater sediment (EPA, 2009)

BTAG - Biological Technical Assistance Group

µg/l = micrograms per liter

The surface water has a HQ above 1. This simple screening does not mean that adverse ecological risks will occur; however, it is an indication that further evaluation of the Site may be warranted. Additionally, surface water samples were unfiltered and may be directly comparable to screening criteria.

#### 7.2.2 Sediment

A conservative comparison of maximum concentrations to ecological screening values was performed. As previously stated, sediment analytical results were compared to EPA Region 3 BTAG screening benchmarks for freshwater sediment. The COPECs in sediment samples collected from Muckinipattis Creek include cadmium, chromium, copper, mercury, nickel, silver, and zinc and from Darby Creek include copper that were detected at concentrations significantly above background and in exceedance of the applicable ESV.

To assess whether the existing contamination may pose an unacceptable risk to ecological receptors, the equation in Section 7.2 was used to determine the HQ associated with each COPEC as summarized in the table below.

### Ecological Screening Risk – Sediment

| Analyte Name                          | Maximum Concentration | Units | Location of Maximum Concentration | Number of Samples Exceeding the Screening Value/<br>Number of Samples <sup>1</sup> | Screening Value | Hazard Quotient |
|---------------------------------------|-----------------------|-------|-----------------------------------|--|-----------------|-----------------|
| <b>Sediment - Muckinipattis Creek</b> |                       |       |                                   |  |                 |                 |
| Cadmium                               | 8.6                   | mg/kg | NL-2020-SD-20                     | 1/1  | 0.99            | 8.67            |
| Chromium                              | 907                   | mg/kg | NL-2020-SD-20                     | 1/1  | 43.3            | 20.9            |
| Copper                                | 364                   | mg/kg | NL-2020-SD-20                     | 1/1  | 31.6            | 11.52           |
| Mercery                               | 2                     | mg/kg | NL-2020-SD-20                     | 2/2  | 0.8             | 2.5             |
| Nickel                                | 976                   | mg/kg | NL-2020-SD-20                     | 1/1  | 22.7            | 42.99           |
| Silver                                | 40                    | mg/kg | NL-2020-SD-20                     | 2/2  | 1               | 40              |
| Zinc                                  | 1,560                 | mg/kg | NL-2020-SD-20                     | 1/1  | 121             | 12.89           |
| <b>Sediment - Darby Creek</b>         |                       |       |                                   |  |                 |                 |
| Copper                                | 288                   | mg/kg | NL-2020-SD-22                     | 1/1  | 43              | 6.7             |

Notes:

<sup>1</sup> Only includes locations where an observed release has been documented

Preliminary ecological risk evaluation for Norwood Landfill includes data collected in 2017.

Screening values are EPA R3 BTAG values for freshwater and freshwater sediment (EPA, 2009)

BTAG - Biological Technical Assistance Group  
mg/kg = milligrams per kilogram

The sediment for Muckinipattis and Darby Creeks have a HQ above 1. This simple screening does not mean that adverse ecological risks will occur; however, it is an indication that further evaluation of the Site may be warranted.

### 7.3 UNCERTAINTIES AND DATA GAPS

The screening processes used here are conservative and simplified, and therefore are associated with high uncertainty. The intent is to bias any estimates high to ensure protectiveness.

Sediment samples SD-16, SD-19, and SD-20 were collected from upland wetlands influenced by Muckinipattis Creek adjacent to Old Norwood Dump. These samples may not be indicative of sediment quality within Muckinipattis Creek or risk to ecological receptors within the creek.

Sediment samples SD-21, SD-22, and SD-23 were collected from upland wetlands influenced by Darby Creek adjacent to Norwood Landfill. These samples may not be indicative of sediment quality within Darby Creek or risk to ecological receptors within the creek.

## 7.4 CONCLUSIONS

Based on the results presented in **Section 7.2**, the following observations and conclusions are presented:

- An ecological risk associated with Muckinipattis Creek surface water was not indicated based on collected data.
- Contamination in Muckinipattis Creek is limited to one sediment sample, SD-20, which contained concentrations of several metals such as cadmium, chromium, copper, mercury, nickel, silver, and zinc. This sample was collected within wetlands along Muckinipattis Creek adjacent to the former Old Norwood Dump. As stated in Section 7.3, this sediment sample was collected from an upland wetland area and may not be indicative of sediment quality within Muckinipattis Creek.
- Contamination in Darby Creek is limited to one sediment sample, SD-22, which contained copper and one surface water sample, SW-11, which contained copper and lead. As stated in Section 7.3, this sediment sample was collected from an upland wetland area and may not be indicative of sediment quality within Darby Creek.

## 8.0 SUMMARY AND CONCLUSIONS

The Norwood Landfill Site consists of the former Old Norwood Dump, the former Norwood Sanitary Landfill, and areas where fill was used during construction of the Winona Homes neighborhood. Portions of the former Old Norwood Dump and former Norwood Sanitary Landfill are adjacent to the Muckinipattis Creek and Darby Creek. Several investigations by USFWS and EPA have been conducted on various portions of the Site between 1993 and 2020. As part of the most recent investigation conducted in 2020, surface, shallow subsurface, and deep subsurface soil as well as groundwater, surface water, and sediment samples were collected throughout the identified areas of concern including from 70 residential properties within and surrounding Winona Homes. The data from these investigations have been reviewed to assess the threats, if any, posed to public health, welfare, or the environment; and to determine if further investigation under the CERCLA is warranted.

Surface and shallow subsurface soil samples collected from the former Old Norwood Dump detected PAHs, metals, and pesticides at concentrations significantly above background. Additionally, a soil sample collected along the boundary of the landfill and access road detected concentrations of dioxins/furans. Portions of the former Old Norwood Dump are accessible to the public and is used by adults and children for recreation such as hiking, exploration, and dog walking; however, the area is not an official designated recreational use area. A section of the former Old Norwood Dump is the current location of DELCORA and contained within a gated fence. Persons who frequent the wooded former Old Norwood Dump may potentially come into contact with contaminated surface soil. Streamlined risk results of the COPC in the soils at the Old Norwood Dump were found to be below EPA's acceptable criteria.

Surface and shallow subsurface soil samples collected from the former Norwood Sanitary Landfill detected PAHs, PCBs, metals, and pesticides at concentrations significantly above background. Additionally, a soil sample collected along the boundary of the landfill and access road detected concentrations of dioxins/furans. The former Norwood Sanitary Landfill is a heavily wooded area accessible to the public and is used by adults and children for recreation such as hiking, exploration, and dog walking; however, the area is not an official designated recreational use area. Persons who frequent the wooded former Norwood Sanitary Landfill may potentially come into contact with contaminated surface soil. Streamlined risk results for both surface and subsurface soil as well as both cancer and noncancer effects were above screening criteria. Based on the results of the streamlined risk screening, EPA conducted a site-specific risk assessment for the surface soil at the former Norwood Sanitary Landfill. The site-specific risk at the Norwood Sanitary Landfill exceeded EPA's cancer target risk criteria due to chromium. However, the concentration of chromium contributing to risk is an isolated detection that appears to be an outlier compared to other landfill

chromium detections. When assessing risk using the next highest concentration, all risk results are below or within EPA's acceptable criteria. In addition, chromium was evaluated assuming it was entirely present in the hexavalent form, which offers an extremely conservative estimate of risk.

At least one PAH, PCB, pesticide, and/or inorganic were detected at concentrations significantly above background (based on comparable background samples analyzed by SIM) from 39 of the 57 properties within Winona Homes. Thirteen of the 39 properties with concentrations significantly above background also exceeded EPA RSLs for residential soil. Of the thirteen properties with soil exceedances of the EPA RSL for residential soil, contaminants were detected in surface soil at eight properties, in shallow subsurface soil at two properties, and in deep subsurface soil at three properties. Streamlined risk results of surface soils (grab or composite), shallow subsurface, and deep subsurface soil were above screening level criteria for noncancer effects. Additionally, streamlined risk results for surface soil were above screening criteria for cancer effects. Following EPA guidelines, screening level risk exceedance indicates a more detailed site-specific risk assessment should be performed to assure the appropriate receptors and site-specific information is included in the risk assessment analysis. The site-specific risk at the Winona Homes were found to be below or within EPA's acceptable risk criteria and/or background concentrations with the exception of five residential properties where chromium exceeded risk when the chromium concentrations is assumed to be all hexavalent chromium. The EPA toxicologist recommends chromium speciation be performed to determine the state (trivalent and/or hexavalent) and concentrations of chromium present. Two additional properties had risk above the level of concern for chromium; however, the samples containing the elevated concentrations of chromium at these properties were collected at depths of 8 to 10 feet bgs presenting an incomplete exposure pathway to current residents. One additional property exceeds EPA's non-cancer threshold for manganese for a sample collected at depths of 2 to 4 feet bgs. The average resident is not anticipated to be exposed to soil below 2-feet bgs. Potential exposure to contaminants associated with those five properties would be construction workers, industrial workers or any persons digging below 2-feet bgs.

Groundwater samples collected from temporary wells contained VOCs and metals at concentrations significantly above background. However, of the VOCs and metals detected in the groundwater samples, lead was the only contaminant that was also detected in soil samples at concentrations significantly above background indicating that the detected VOCs and other metals in groundwater are not originating from the possible sources (contaminated soil associated with the former Norwood Sanitary Landfill, former Old Norwood Dump, and Winona Homes neighborhood) investigated as part of this ESI. Groundwater risk was found to be below or within EPA's acceptable risk criteria. Additionally, potable groundwater is an

incomplete exposure pathway to residents and vapor intrusion from groundwater was not identified since all volatile concentrations were below screening.

One surface water sample collected from Darby Creek contained copper and lead at concentrations significantly above background. These contaminants were also detected in soil samples at concentrations significantly above background. One sediment sample from Muckinipattis Creek detected cadmium, copper, mercury, nickel, silver, and zinc at concentrations significantly above background and one sample from Darby Creek contained copper at a concentration significantly above background. These contaminants were also detected in soil samples at concentrations significantly above background. The concentrations of COPCs in the surface water and sediment samples did not exceed human health risk screening levels; however, concentrations were above ecological screening-level site hazard. Potential receptors associated with the surface water migration pathway include the sensitive environments such as the numerous states and federally listed threatened and/or endangered species known to occur at the nearby John Heinz National Wildlife Refuge and the identified wetlands along the Muckinipattis and Darby Creeks. Additionally, the potential exists for the public to catch and eat fish, which may have been exposed to sediments contaminated with hazardous substances such as mercury originating from the Site. The Muckinipattis and Darby Creeks are located in an urban setting and receive surface water runoff from asphalt roadways. Additionally, numerous EPA-regulated facilities are located upstream of the Site along the Muckinipattis and Darby Creek, including a large tank farm and the Lower Darby Creek Area Superfund Site.

When considering the number of properties in Winona Homes where contaminants were detected at levels significantly above that which were detected in the surrounding neighborhoods, the variation from property to property in types of contaminants detected above background, and the absence of similar elevated contaminants at all depths of soil throughout the neighborhood, the data does not appear consistent with fill soil contaminated by one particular source and spread across the neighborhood. Additionally, the concentrations of most contaminants found in samples were not detected at levels that would present an unacceptable risk to human health over a lifetime at a majority of the homes sampled. There are numerous sources of contaminants present in this semi-urban neighborhood ranging from those generated by activities at the individual property level over the course of the last 60 years, such as pesticide application or runoff from asphalt roofs and driveways, to the regional level such as proximity to major highways and an airport where aerial deposition of contaminants such as PAH's may be occurring. It is important for the community to recognize that some contaminants may exist in the surface and subsurface soil of their yards that could be naturally occurring or a result of numerous non-point sources in the surrounding urban environment and have an understanding that the likelihood of developing adverse health conditions due to potential exposure to those contaminants in the soil is expected to be very low. However, to further refine its human health risk



screening evaluation, EPA plans to collect additional samples at several residences for chromium speciation analysis.

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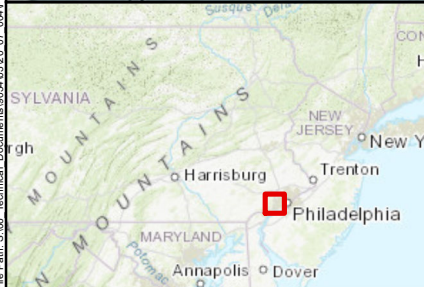
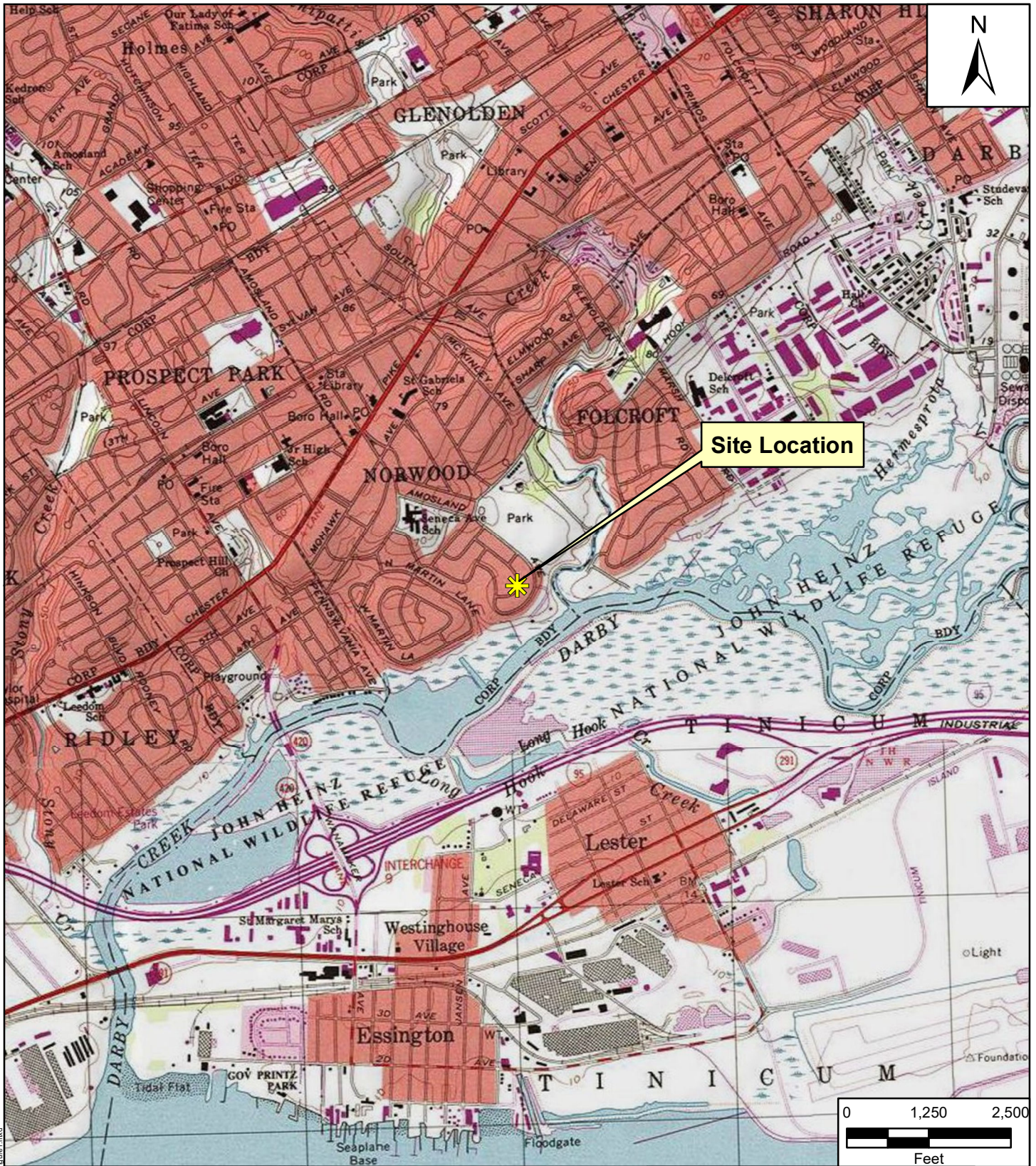
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- 5B Non-Residential Samples with Elevated PCBs Map
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**Legend**

 Site Location

Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 1**  
**Site Location**



Source: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community  
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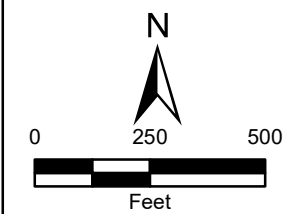
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**Legend**

- Streams
- Area Of Concern
- Former Norwood Sanitary Landfill
- Winona Homes (area of potentially contaminated fill)
- Former Old Norwood Dump

Note:  
WWTP – Wastewater Treatment Plant



Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 2**  
**Areas of Concern**



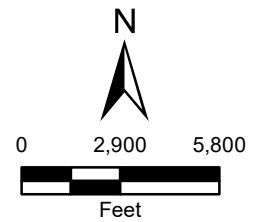
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**Legend**

- ★ Norwood Landfill Site
- ⊗ Domestic Well
- Surface Water Intake
- 1/4 Mile
- 1/2 Mile
- 1 Mile
- 2 Miles
- 3 Miles
- 4 Miles
- ▨ NWI Wetlands

Source: Copyright © 2013 National Geographic Society, I-cubed

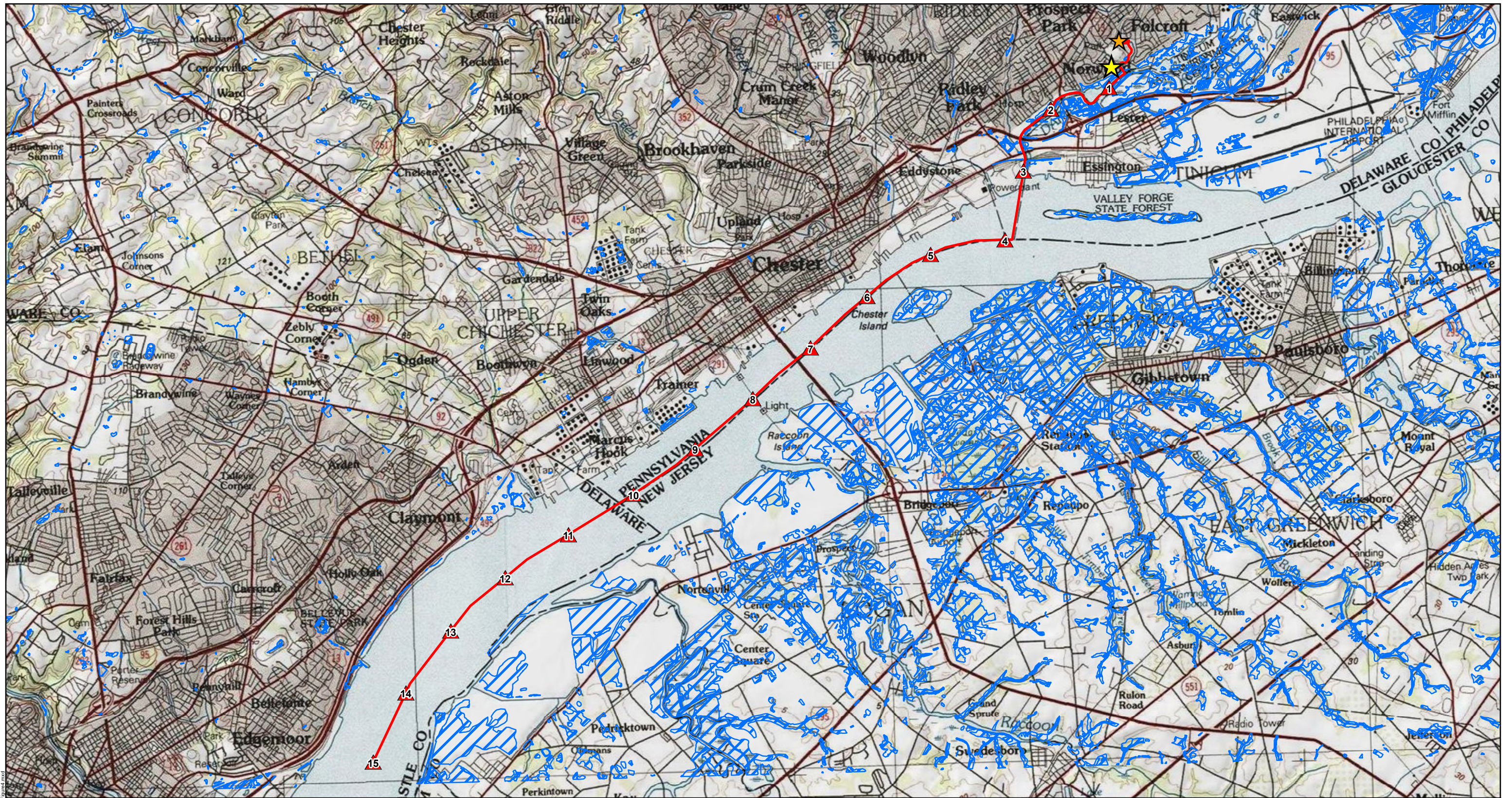


Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 3**  
**4-Mile Radius Target**  
**Distance Limit Map**



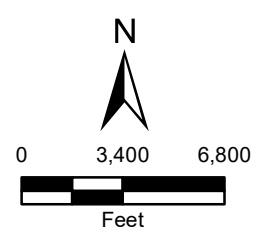




**Legend**

- ▲ 15-Mile Marker
- ★ Probable Point of Entry
- ★ Norwood Landfill Site
- Fifteen Mile Surface Water Pathway
- NWI Wetlands

Source: Copyright © 2013 National Geographic Society, I-cubed

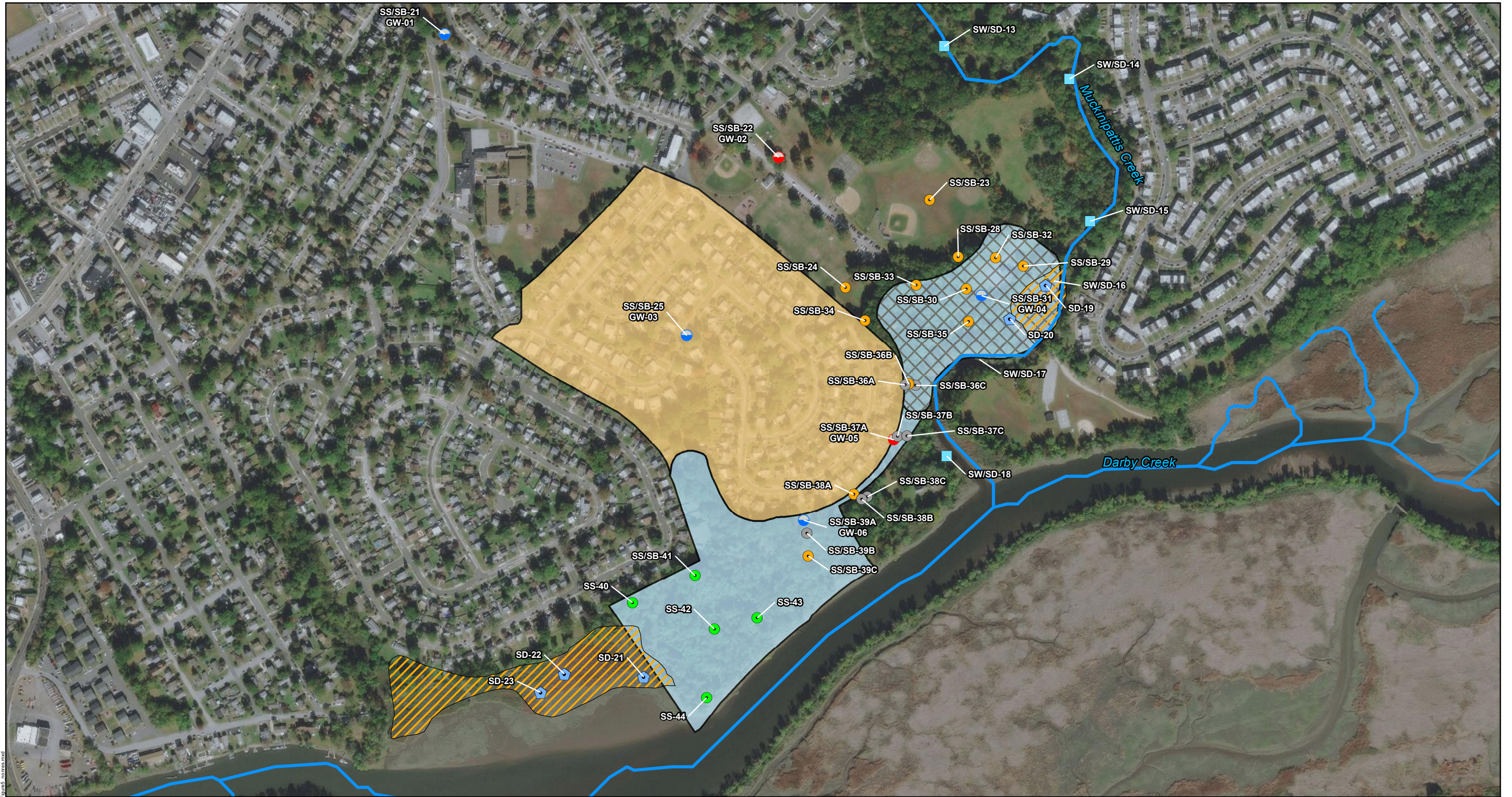


Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 4**  
**15-Mile Downstream Target**  
**Distance Limit Map**



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**Legend**

**Non-Residential Sampling Locations**

- Surface Soil/Soil Boring - Direct Push Technology
- Surface Soil/Soil Boring (Not Sampled)

- Surface Soil/Soil Boring - Hand Auger
- Soil Boring Converted to Temporary Well

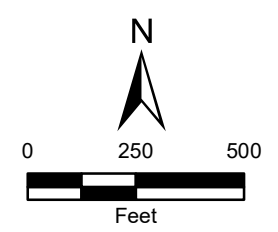
- Soil Boring Converted to Temporary Well (Not Sampled)
- Surface Water/Sediment Sample
- Sediment Sample

- Streams
- ▨ National Wetlands Inventory (NWI) Wetlands

**Areas Of Concern**

- Winona Homes Neighborhood
- ▨ Former Old Norwood Dump
- Former Norwood Sanitary Landfill

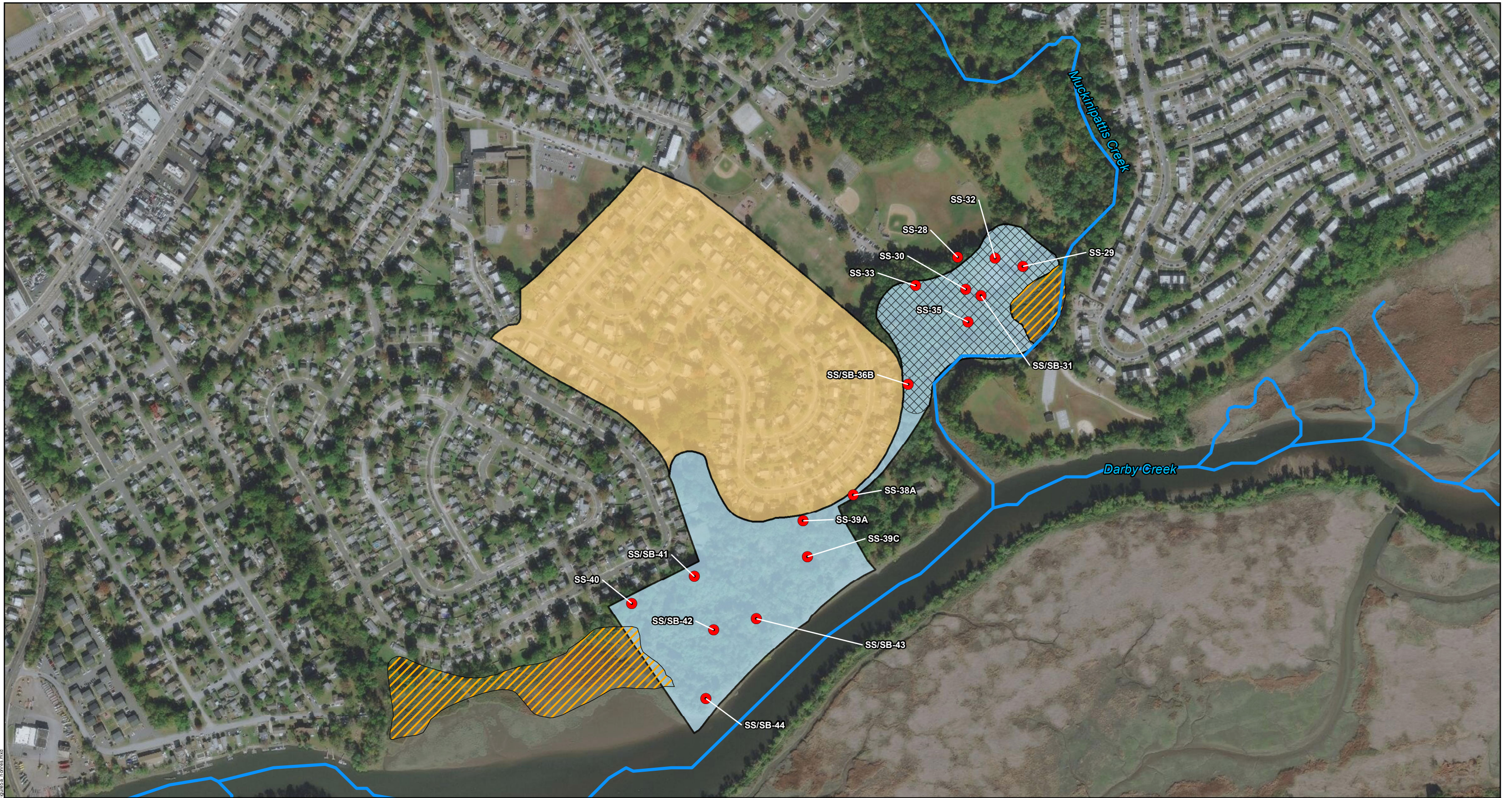
Note:  
NWI – National Wetlands Inventory



Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 5**  
**2020 Non-Residential**  
**Sampling Location Map**





**Legend**

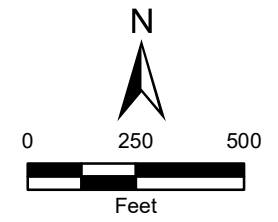
● Samples Containing PAHs at Concentrations Significantly Above Background

— Streams  
 ▨ NWI Wetlands

**Area Of Concern**

■ Winona Homes Neighborhood  
 ▩ Old Norwood Dump  
 ■ Former Norwood Sanitary Landfill

Note:  
 - NWI – National Wetlands Inventory  
 - PAHs – Polycyclic Aromatic Hydrocarbons  
 - Samples Containing PAHs at Concentrations Significantly Above Background



Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 5A**  
**2020 Non-Residential Soil Samples with Elevated PAHs**





**Legend**

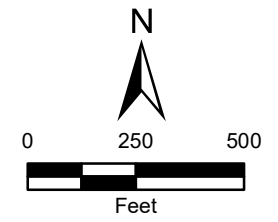
● Samples Containing PCBs at Concentrations Significantly Above Background

— Streams  
 ▨ NWI Wetlands

**Area Of Concern**

■ Winona Homes Neighborhood  
 ▩ Old Norwood Dump  
 ■ Former Norwood Sanitary Landfill

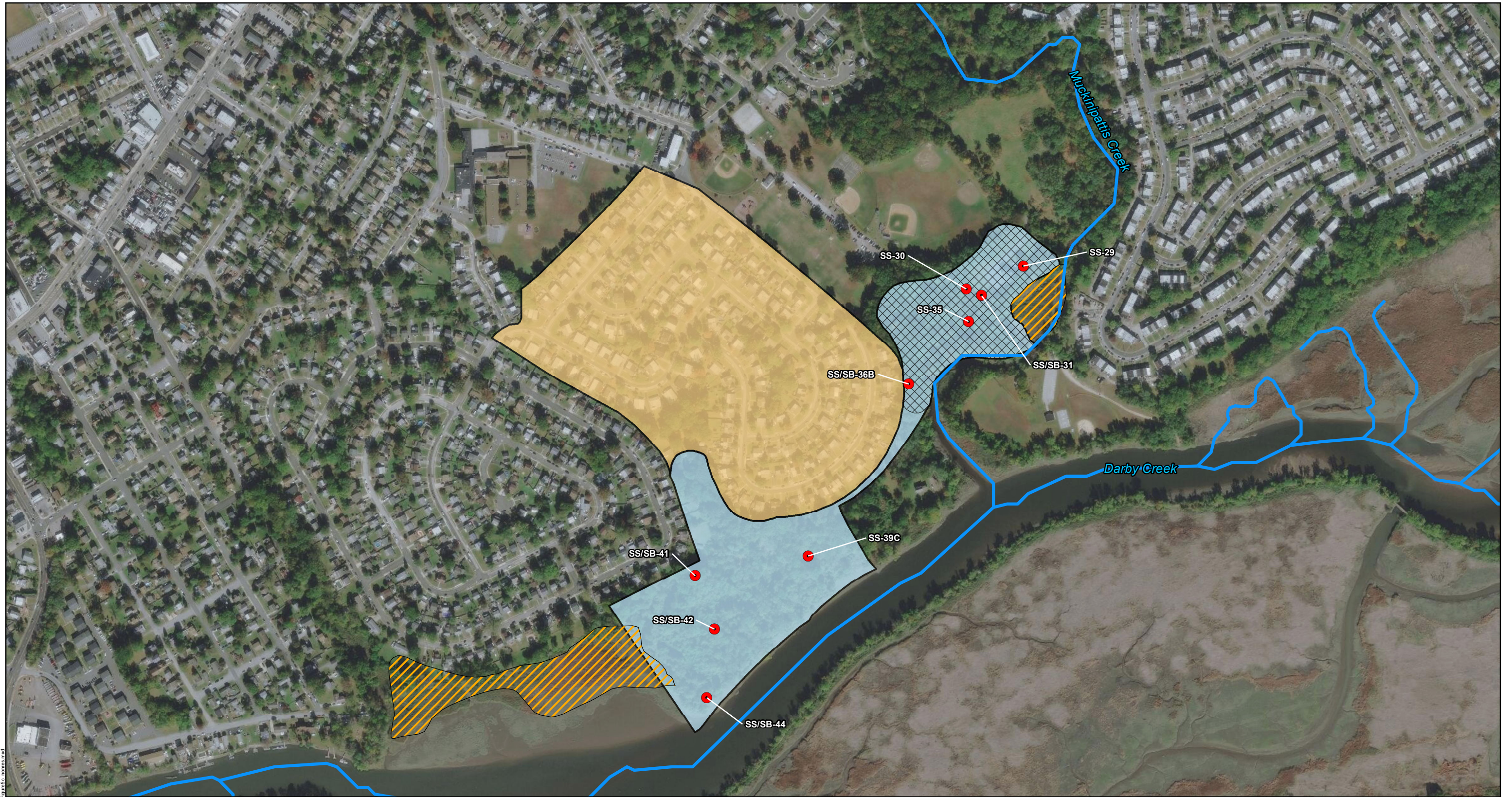
Note:  
 - NWI – National Wetlands Inventory  
 - PCBs – Polychlorinated Biphenyls



Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 5B**  
 2020 Non-Residential Samples  
 with Elevated PCBs





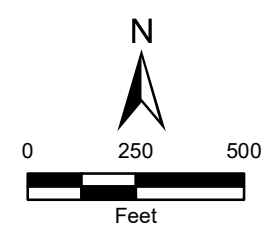
**Legend**

- Samples Containing Pesticides at Concentrations Significantly Above Background
- Streams
- ▨ NWI Wetlands
- Area Of Concern
- Winona Homes Neighborhood
- ▩ Old Norwood Dump
- Former Norwood Sanitary Landfill

**Area Of Concern**

- Winona Homes Neighborhood
- ▩ Old Norwood Dump
- Former Norwood Sanitary Landfill

**Note:**  
 - NWI – National Wetlands Inventory  
 - Samples Containing Pesticides at Concentrations Significantly Above Background

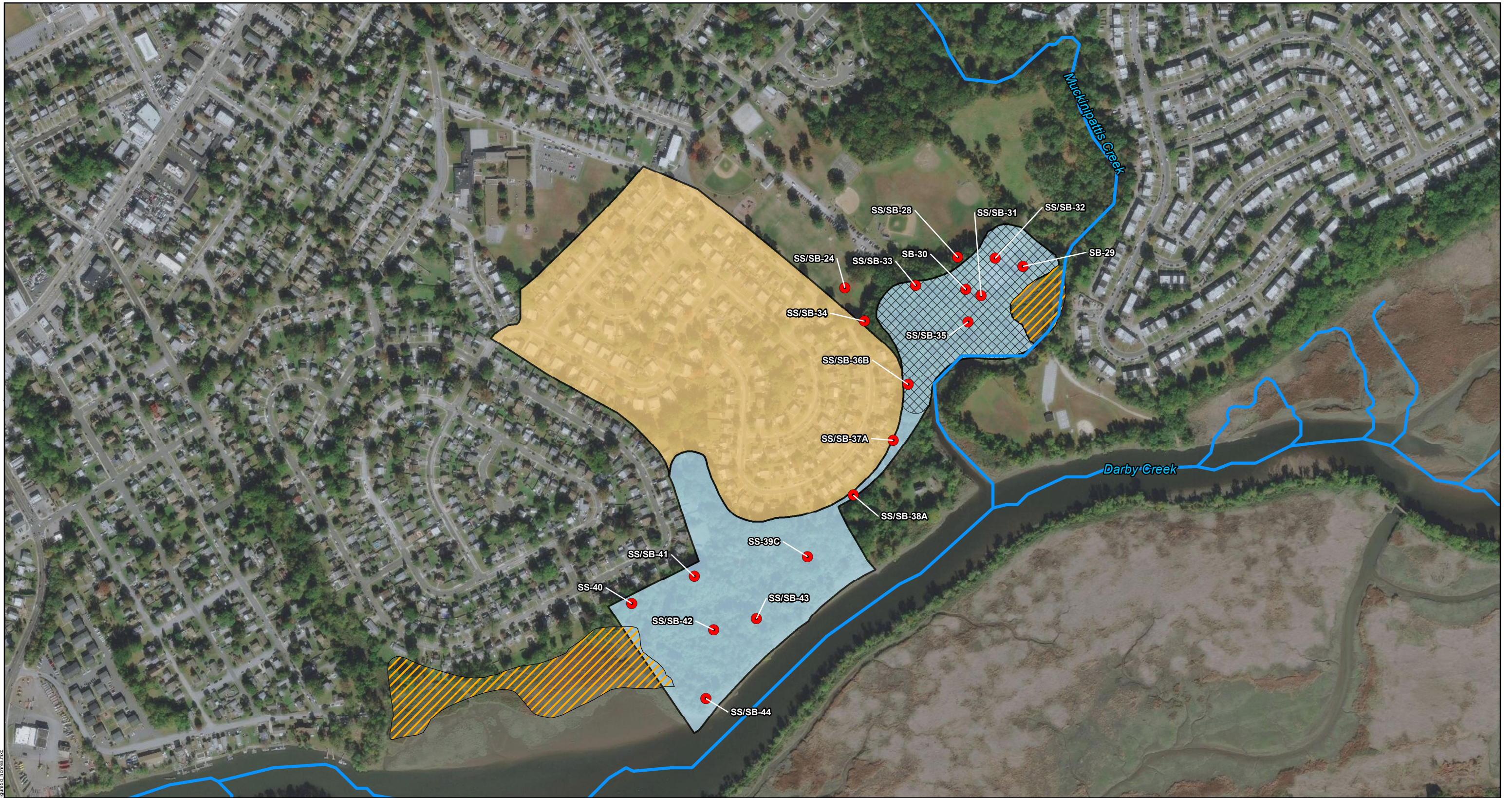


Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 5C**  
**2020 Non-Residential Soil Samples with Elevated Pesticides**

Prepared For: R3 START VI  
 Prepared By: Megan Kelly  
 Coordinate System: WGS 1984 UTM Zone 18N

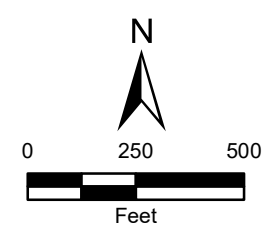
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 TDD No: 1603-20-07-004



**Legend**

|  |                                    |                        |
|--|------------------------------------|------------------------|
| ● Samples Containing Inorganics at Concentrations Significantly Above Background | — Streams                          | <b>Area Of Concern</b> |
| ▨ NWI Wetlands   | ■ Winona Homes Neighborhood        | ▤ Old Norwood Dump     |
|  | ■ Former Norwood Sanitary Landfill |                        |

Note:  
 - NWI – National Wetlands Inventory  
 - Samples Containing Inorganics at Concentrations Significantly Above Background



Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 5D**  
**2020 Non-Residential Soil Samples with Elevated Metals**

Prepared For: R3 START VI  
 Prepared By: Megan Kelly  
 Coordinate System: WGS 1984 UTM Zone 18N

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 TDD No: T603-20-07-004

Source: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



- Legend**
- Grab Surface Soil and Composite Surface Soil Sample Location
  - Grab Surface Soil, Composite Surface Soil, and Hand Auger Subsurface Soil Sample Location
  - Grab Surface Soil, Composite Surface Soil, and Direct Push Technology Subsurface Soil Sample

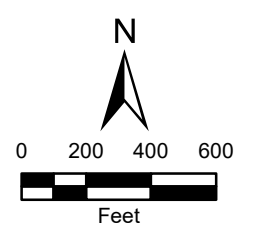
**Soil Sampling Areas**

- North of Winona Homes
- Winona Homes
- Norwood Acres

- West of Winona Homes
- Winona Homes
- Streams

- NWI Wetlands
- Old Norwood Dump
- Former Norwood Sanitary Landfill

Note:  
- NWI – National Wetlands Inventory

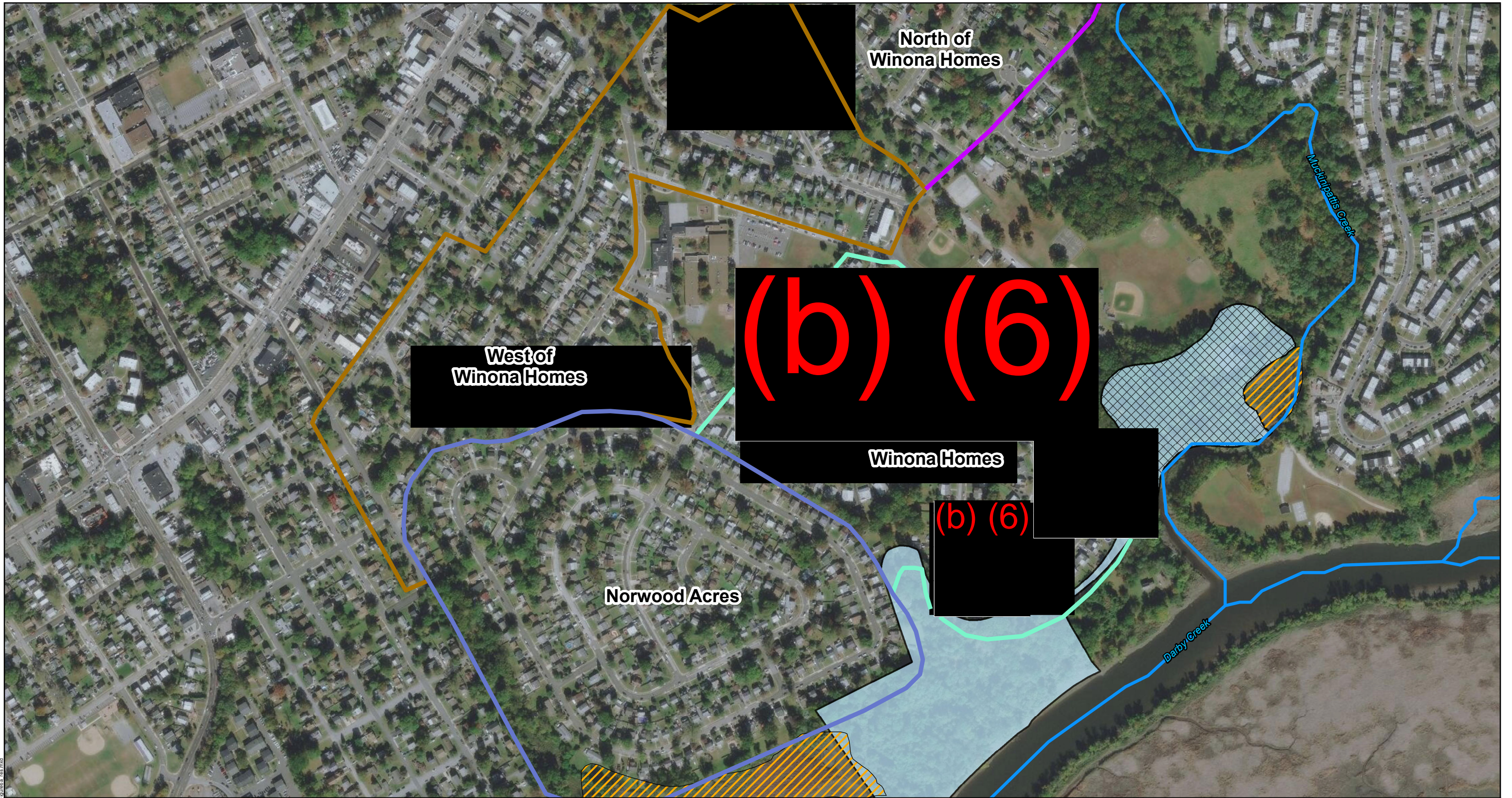


Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 6**  
**2020 Residential Sampling Location Map**



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**Legend**

● Samples Containing PAHs at Concentrations Significantly Above Background

**Soil Sampling Areas**

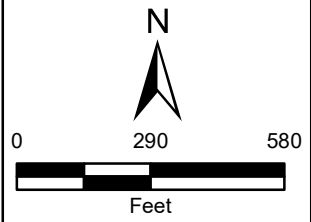
- North of Winona Homes
- Norwood Acres

- West of Winona Homes
- Winona Homes
- Streams

- NWI Wetlands
- Old Norwood Dump
- Former Norwood Sanitary Landfill

Note:

- NWI – National Wetlands Inventory
- PAHs – Polycyclic Aromatic Hydrocarbons
- Samples Containing PAHs at Concentrations Significantly Above Background

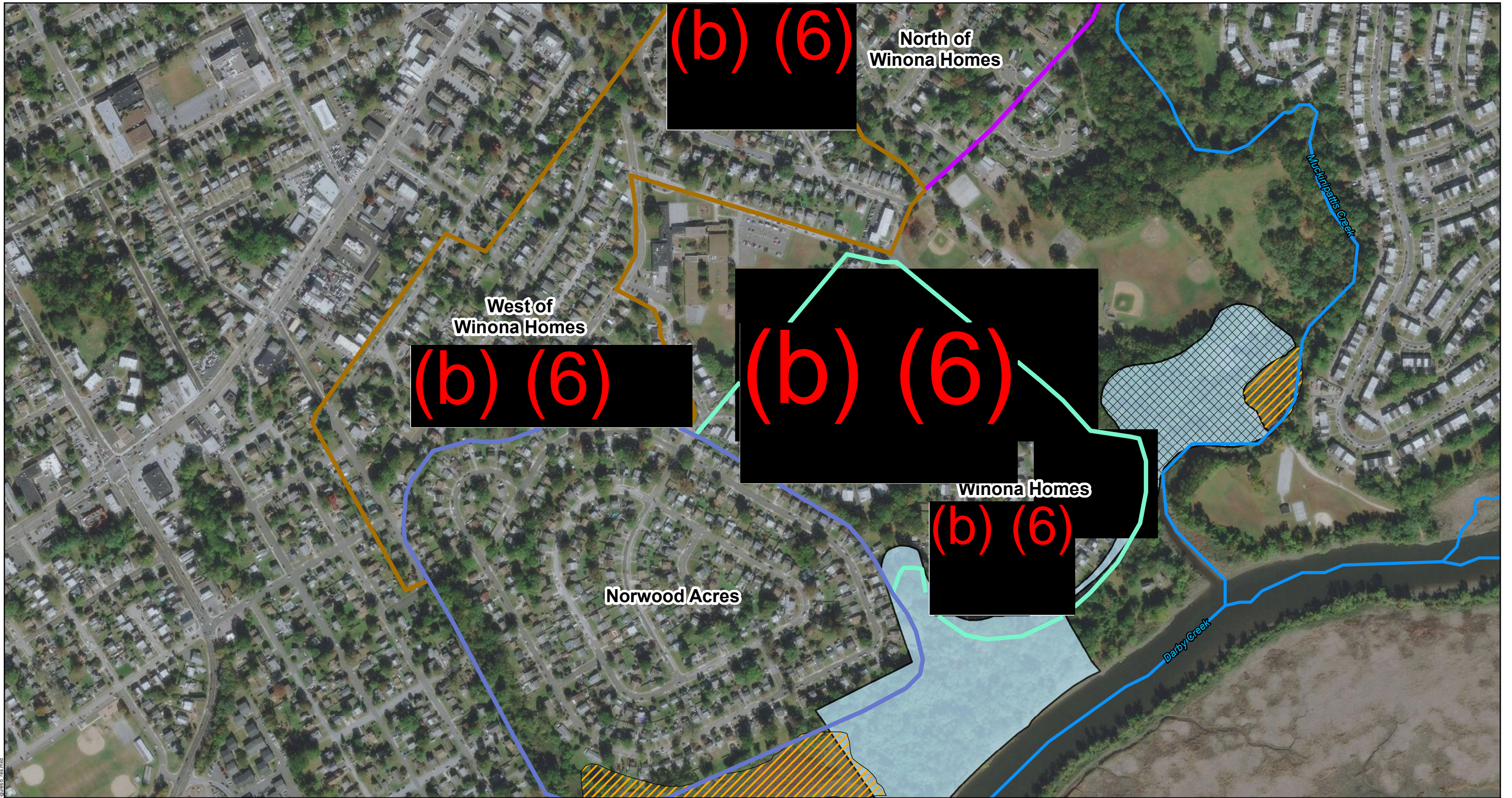


Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 6A**  
**2020 Residential Samples with Elevated PAHs Map**







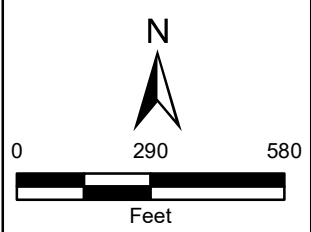
- Legend**
- Samples Containing PCBs at Concentrations Significantly Above Background
  - Background Samples Containing Concentrations of PCBs
  - Sample Containing PCBs Below Background

- Soil Sampling Areas**
- North of Winona Homes
  - Norwood Acres

- West of Winona Homes
- Winona Homes
- Streams

- ▨ NWI Wetlands
- ▨ Old Norwood Dump
- ▨ Former Norwood Sanitary Landfill

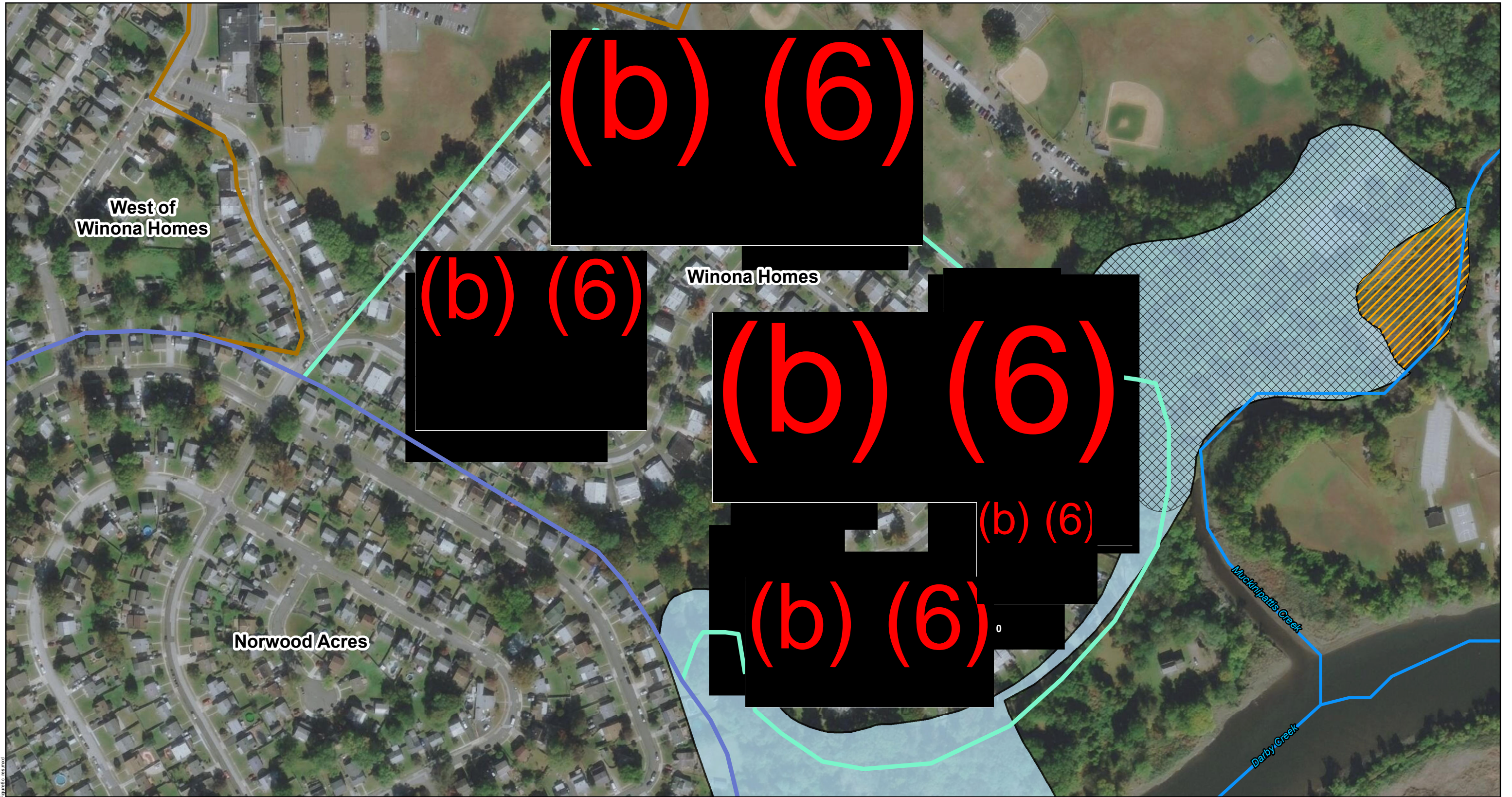
Note:  
 - NWI – National Wetlands Inventory  
 - PCBs – Polychlorinated Biphenyls



Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 6B**  
 2020 Residential Samples  
 with Elevated PCBs Map

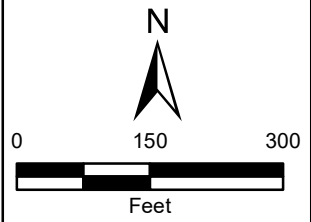




**Legend**

- Samples Containing Pesticides at Concentrations Significantly Above Background
- Soil Sampling Areas**
- West of Winona Homes
- North of Winona Homes
- Norwood
- Winona Homes
- Streams
- ▨ NWI Wetlands
- ▩ Old Norwood Dump
- Former Norwood Sanitary Landfill

Note:  
 - NWI – National Wetlands Inventory  
 - Samples Containing Pesticides at Concentrations Significantly Above Background



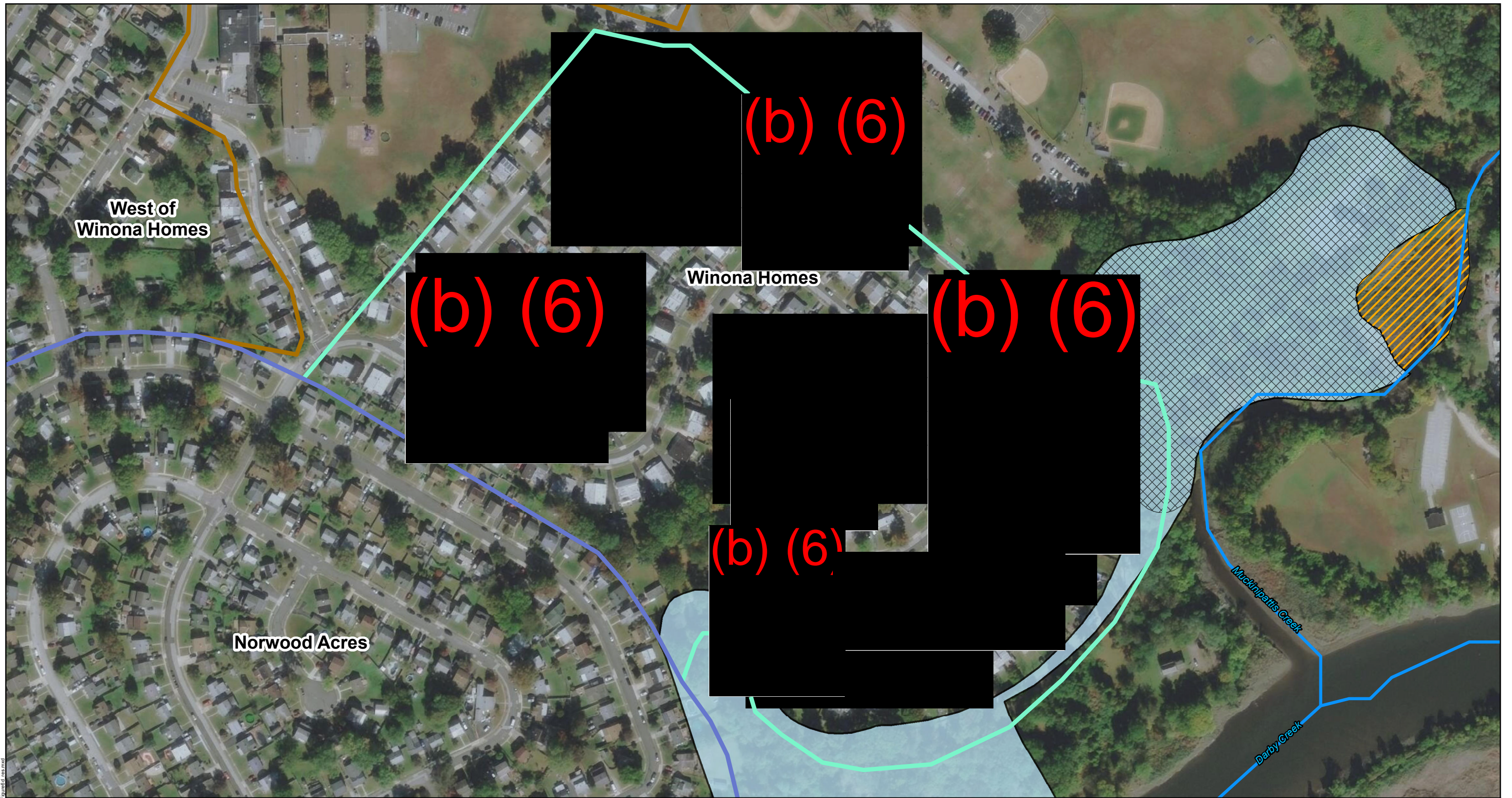
Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 6C**  
**2020 Residential Soil Samples**  
**with Elevated Pesticides**

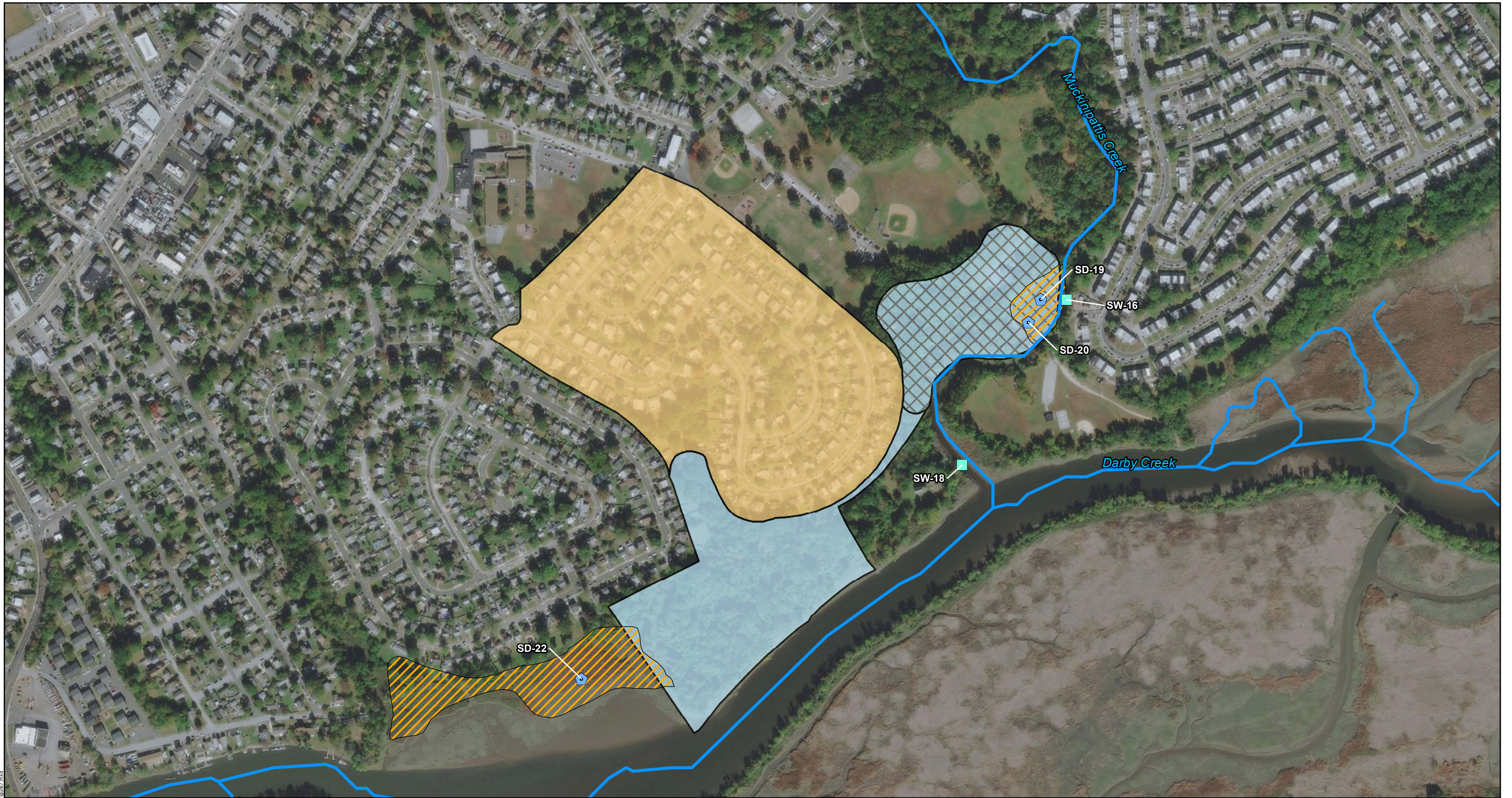
TETRA TECH

Prepared For: R3 START VI  
 Prepared By: Megan Kelly  
 Coordinate System: WGS 1984 UTM Zone 18N

File Path: S:\06\_Technical\_Documents\03\0320\_07\_06\Figures\_6a.mxd



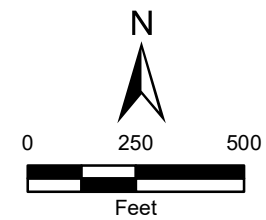
|  |   |  |   |  |  |  |
|--|---|--|---|--|--|--|
| <p><b>Legend</b></p> <p>● Samples Containing Inorganics at Concentrations Significantly Above Background</p> | <p><b>Soil Sampling Areas</b></p> <p>— North of Winona Homes</p> <p>— Norwood Acres</p> | <p>— West of Winona Homes</p> <p>— Winona Homes</p> <p>— Streams</p> | <p>▨ NWI Wetlands</p> <p>▨ Old Norwood Dump</p> <p>▨ Former Norwood Sanitary Landfill</p> | <p>Note:</p> <ul style="list-style-type: none"> <li>- NWI – National Wetlands Inventory</li> <li>- Samples Containing Inorganics at Concentrations Significantly Above Background</li> </ul> |  | <p>Norwood Landfill Site<br/>Norwood, Delaware County, PA</p> <p><b>Figure 6D</b><br/><b>2020 Residential Soil Samples with Elevated Inorganics</b></p> <p> TETRA TECH</p> <p><small>Prepared For: R3 START VI<br/>Coordinate System: WGS 1984 UTM Zone 18N<br/>Prepared By: Megan Kelly</small></p> |
|--|---|--|---|--|--|--|



**Legend**

- |  |  |  |
|--|--|--|
|  Surface Water/Sediment   |  Streams                                    |  Winona Homes Neighborhood        |
|  Sediment Sample Location |  National Wetlands Inventory (NWI) Wetlands |  Former Old Norwood Dump          |
|  |  |  Former Norwood Sanitary Landfill |

Note:  
 - NWI – National Wetlands Inventory  
 - Samples Containing Inorganics at Concentrations Significantly Above Background



Norwood Landfill Site  
 Norwood, Delaware County, PA

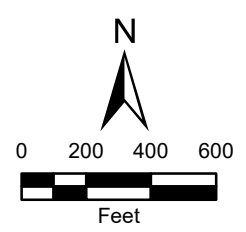
**Figure 7**  
**2020 Surface Water and Sediment Samples with Elevated Inorganics**





- Legend**
- x 2020 Non-Residential Sampling Locations
  - 2020 Residential Sampling Locations
  - 2017 & 2018 Sample Locations
  - Streams
  - NWI Wetlands
  - Former Norwood Sanitary Landfill
  - Old Norwood Dump

Note:  
- NWI – National Wetlands Inventory



Norwood Landfill Site  
Norwood, Delaware County, PA

**Figure 8**  
**2017, 2018, and 2020**  
**Sample Location Map**



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Table 1  
Norwood Landfill  
Non-Residential Soil and Groundwater Sample Summary

| Borehole No.            | Borehole Depth | Sample ID | Sample Depth/<br>Screened Interval<br>(feet) | Sampling Location Description   | Sample Description                          |
|-------------------------|----------------|-----------|--|---|---|
| <b>Background</b>       |                |           |  |   |   |
| 21                      | 20             | SS-21     | 0-1  | Borough property, northwest of Winona Homes Neighborhood; converted to temporary well | Dark brown                                  |
|                         |                | SB-21     | 15-16  |   | Reddish brown clay, firm                    |
|                         |                | GW-01     | 10-20  |   | DTW: 12.85-feet below ground surface (bgs)  |
| 22                      | 13             | SS-22     | 0-1  | Northwestern portion of Norwood Park; converted to temporary well                     | Dark brown                                  |
|                         |                | SB-22     | 12-13  |   | Redish yellow sands                         |
|                         |                | GW-02     | 4-14   |   | Not collected; well dry                     |
| <b>Norwood Park</b>     |                |           |  |   |   |
| 23                      | 17             | SS-23     | 0-1  | Southeastern portion of Norwood Park  | Dark brown clay                             |
|                         |                | SB-23     | 16-17  |   | Yellowish brown fine sand                   |
| 24                      | 12             | SS-24     | 0-1  | Southeastern portion of Norwood Park  | Grayish brown clay                          |
|                         |                | SB-24     | 6-7  |   | Brown clay, fine sands                      |
| <b>Winona Homes ROW</b> |                |           |  |   |   |
| 25                      | 10             | SS-25     | 1-2  | Central portion of Winona Homes Neighborhood; converted to temporary well             | Gray clay                                   |
|                         |                | SB-25     | 5-6  |   | Grayish brown clay                          |
|                         |                | GW-03     | 4-9  |   | DTW: 5.4-feet bgs                           |
| 26                      | NA             | SS-26     | NS   | West-central portion of Norwood Neighborhood  |   |
|                         |                | SB-26     | NS   |   |   |
| 27                      | NA             | SS-27     | NS   | Southern portion of Norwood Neighborhood  |   |
|                         |                | SB-27     | NS   |   |   |
| <b>Old Norwood Dump</b> |                |           |  |   |   |
| 28                      | 16             | SS-28     | 0-1  | Northcentral edge of Old Dump   | Dark brown firm clay                        |
|                         |                | SB-28     | 15-16  |   | Dark gray fine sand                         |
| 29                      | 10             | SS-29     | 0-1  | Eastern area of Old Dump  | Dark brown clay                             |
|                         |                | SB-29     | 8-9  |   | Brown clay, fine sands; water at 9-feet bgs |
| 30                      | 20             | SS-30     | 0-1  | Central portion of Old Dump   | Dark brown clay, broken glass               |
|                         |                | SB-30     | 19-20  |   | Dark brown sand; water at 20-feet bgs       |
| 31                      | 20             | SS-31     | 0-1  | Central portion of Old Dump; converted to temporary monitoring well                   | Dark brown topsoil                          |
|                         |                | SB-31     | 14-15  |   | Dark brown                                  |
|                         |                | GW-04     | 10-20  |   | DTW: 14.61-feet bgs                         |
| 32                      | 10             | SS-32     | 0-1  | Eastern area of Old Dump  | Dark brown clay                             |
|                         |                | SB-32     | 7-8  |   | Dark gray clay                              |
| 33                      | 10             | SS-33     | 0-1  | Northern edge of Old Dump   | Dark brown                                  |
|                         |                | SB-33     | 9-10   |   | Gray clay                                   |
| 34                      | 10             | SS-34     | 0-1  | Boundary between Winona Homes and Old Dump  | Dark brown clay                             |
|                         |                | SB-34     | 6-7  |   | Reddish brown fine sand                     |
| 35                      | 11             | SS-35     | 0-1  | Central portion of Old Dump   | Dark brown                                  |
|                         |                | SB-35     | 10-11  |   | Gray fine sand                              |
| 36a                     | 8.5            | NS        | NA   | Transect along edge of Old Dump at boundary with Winona Homes                         |   |
|                         |                | NS        | NA   |   |   |
| 36b                     | 15             | SS-36     | 0-1  | Transect along edge of Old Dump at boundary with Winona Homes                         | Dark brown; trash                           |
|                         |                | SB-36     | 5-6  |   | Dark gray clay; trash and plastic           |
| 36c                     | 14             | NS        | NA   | Transect along edge of Old Dump at boundary with Winona Homes                         |   |
|                         |                | NS        | NA   |   |   |

Table 1  
Norwood Landfill  
Non-Residential Soil and Groundwater Sample Summary

| Borehole No.                     | Borehole Depth | Sample ID | Sample Depth/<br>Screened Interval<br>(feet) | Sampling Location Description  | Sample Description  |
|----------------------------------|----------------|-----------|--|--|---|
| <b>Norwood Sanitary Landfill</b> |                |           |  |  |   |
| 37a                              | 7              | SS-37     | 0-1  | Transect along Norwood Landfill at boundary between Winona Homes and landfill; converted to temporary well | Brown clay  |
|                                  |                | SB-37     | 6-7  |  | Yellowish brown fine sand                                     |
|                                  |                | GW-05     | 2-7  |  | Not collected; well dry                                       |
| 37b                              | 7              | NS        | NA   | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              |   |
|                                  |                | NS        | NA   |  |   |
| 37c                              | 2              | NS        | NA   | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              |   |
|                                  |                | NS        | NA   |  |   |
| 38a                              | not noted      | SS-38     | 0-1  | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              | Not noted   |
|                                  |                | SB-38     | 5-6  |  | Not noted   |
| 38b                              | 10             | NS        | NA   | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              |   |
|                                  |                | NS        | NA   |  |   |
| 38c                              | 9              | NS        | NA   | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              |   |
|                                  |                | NS        | NA   |  |   |
| 39a                              | 15             | SS-39a    | 0-1  | Transect along Norwood Landfill at boundary between Winona Homes and landfill; converted to temporary well | Dark brown  |
|                                  |                | SB-39a    | 11-12  |  | Yellowish brown clay fine sand                                |
|                                  |                | GW-06     | 10-20  |  | DTW: 10.38-feet bgs   |
| 39b                              | 15             | NS        | NA   | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              |   |
|                                  |                | NS        | NA   |  |   |
| 39c                              | 10             | SS-39c    | 0-1  | Transect along Norwood Landfill at boundary between Winona Homes and landfill                              | Dark brown clay   |
|                                  |                | SB-39c    | 13-14  |  | Gray clay fine sand   |
| 40                               | 2.5            | SS-40     | 0-0.5  | Southwestern portion of Norwood Landfill   | Dark brown sandy silt; some gravel                            |
|                                  |                | SB-40     | 2-2.5  |  | Light brown sandy silt  |
| 41                               | 3              | SS-41     | 0-0.5  | Southwestern portion of Norwood Landfill   | dark brown silty clay   |
|                                  |                | SB-41     | 2-3  |  | Light brown silt; trash; black silt and cinders at 3-feet bgs |
| 42                               | 3              | SS-42     | 0-0.5  | Southwestern portion of Norwood Landfill   | Brown sandy silt  |
|                                  |                | SB-42     | 2-3  |  | Light brown silty sand; trash                                 |
| 43                               | 3              | SS-43     | 0-0.5  | Southwestern portion of Norwood Landfill   | Topsoil   |
|                                  |                | SB-43     | 2-3  |  | Reddish brown sandy silt; trash, glass, and plastic           |
| 44                               | 3              | SS-45     | 0.5  | Southwestern portion of Norwood Landfill   | Topsoil, reddish brown sandy silt; trash                      |
|                                  |                | SB-45     | 2-3  |  | Layer of black silt, reddish brown silt; trash                |

**Notes:**

- Gray shaded cell indicates soil description not available
- DTW: Depth to water
- GW: Groundwater
- NS: Not sampled
- NA: Not applicable
- SS: Surface soil
- SB: Subsurface soil



Table 2  
Norwood Landfill  
Residential Soil Sample Summary

| Sample ID                        | 2- to 4-feet<br>below ground<br>surface | 8- to 10-feet<br>below ground<br>surface | Sample Description   |
|----------------------------------|---|--|--|
| <b>Winona Homes Neighborhood</b> |   |  |  |
| 100                              | X                                       |  | Surface: dark brown silt Subsurface:<br>light brown clay                                       |
| 101                              |   |  |  |
| 102                              |   |  |  |
| 103                              | X                                       | X  |  |
| 104                              |   |  |  |
| 105                              |   |  |  |
| 106                              |   |  |  |
| 107                              | X                                       |  | Surface: light to dark brown silt with<br>bands of gray clay Subsurface: gray<br>clay          |
| 108                              | X                                       |  | Surface: dark brown silt Subsurface:<br>brown silt   |
| 109                              |   |  |  |
| 110                              | X                                       | X  |  |
| 111                              | X                                       |  | Surface: dark brown silt Subsurface:<br>brown silt   |
| 112                              | X                                       |  | Surface: dark brown silt Subsurface:<br>brown silt   |
| 113                              |   |  |  |
| 114                              |   |  |  |
| 115                              | X                                       | X  |  |
| 116                              |   |  |  |
| 117                              | X                                       |  | Surface: dark brown silt Subsurface:<br>brown silt   |
| 118                              | X                                       |  | Surface: dark brown silt Subsurface:<br>brown silt - gray wood fragments<br>observed @ 4ft bgs |
| 119                              | X                                       | X  |  |
| 120                              |   |  |  |
| 121                              | X                                       | X  |  |
| 122                              |   |  |  |
| 123                              | X                                       |  | Surface: dark brown silt Subsurface:<br>brown silt   |
| 124                              |   |  |  |
| 125                              | X                                       |  | Surface: dark brown silt Subsurface:<br>light brown clay                                       |
| 126                              | X                                       | X  |  |
| 127                              |   |  |  |

Table 2  
Norwood Landfill  
Residential Soil Sample Summary

| Sample ID | 2- to 4-feet<br>below ground<br>surface | 8- to 10-feet<br>below ground<br>surface | Sample Description  |
|-----------|---|--|---|
| 128       | X                                       |  | Surface: brown silt<br>Subsurface: brown silt with gravel and<br>glass - @2-3 ft bgs, little soil - ash,<br>charred pieces, glass, gravel |
| 129       | X                                       | X  |   |
| 130       | X                                       |  | Surface: medium brown silt<br>Subsurface: orange-brown clay with<br>gray clay mottling  |
| 131       | X                                       |  | Surface: medium brown silty-clay<br>Subsurface: light brown silty clay  |
| 132       | X                                       |  | Surface: dark brown silt Subsurface:<br>light brown silt with gray clay   |
| 133       | X                                       |  | Surface: medium brown silt<br>Subsurface: light brown silt with gray<br>clay  |
| 134       |   |  |   |
| 135       |   |  |   |
| 136       | X                                       | X  |   |
| 137       | X                                       |  | Surface: light to medium brown silt<br>Subsurface: light to medium brown<br>silt with some gray clay mottling                             |
| 138       |   |  |   |
| 139       | X                                       |  | Surface: brown silty clay Subsurface:<br>brown/gray/copper silty clay   |
| 140       |   |  |   |
| 141       | X                                       |  | Subsurface: light brown silty clay  |
| 168       |   |  |   |
| 169       |   |  |   |
| 142       |   |  |   |
| 143       | X                                       | X  |   |
| 144       |   |  |   |
| 145       |   |  |   |
| 146       | X                                       | X  |   |
| 147       | X                                       | X  |   |
| 170       |   |  |   |
| 148       |   |  |   |
| 149       |   |  |   |
| 150       |   |  |   |
| 151       |   |  |   |
| 152       |   |  |   |

Table 2  
Norwood Landfill  
Residential Soil Sample Summary

| Sample ID | 2- to 4-feet<br>below ground<br>surface | 8- to 10-feet<br>below ground<br>surface | Sample Description |
|-----------|---|--|--------------------|
| 153       |   |  |                    |
| 154       |   |  |                    |
| 155       |   |  |                    |

Table 2  
 Norwood Landfill  
 Residential Soil Sample Summary

| Sample ID                    | 2- to 4-feet<br>below ground<br>surface | 8- to 10-feet<br>below ground<br>surface | Sample Description                                       |
|------------------------------|---|--|--|
| <b>Norwood Acres</b>         |   |  |  |
| 156                          | X                                       | X  |  |
| 157                          | X                                       |  | Subsurface: light brown                                  |
| 158                          |   |  |  |
| 160                          |   |  |  |
| <b>West of Winona Homes</b>  |   |  |  |
| 100                          | X                                       |  | Surface: dark brown silt Subsurface:<br>light brown clay |
| 159                          |   |  |  |
| 161                          |   |  |  |
| 162                          |   |  |  |
| 163                          | X                                       | X  |  |
|                              |   |  |  |
| <b>North of Winona Homes</b> |   |  |  |
| 164                          |   |  |  |
| 165                          |   |  |  |
| 166                          | X                                       |  | Subsurface: light brown silty clay                       |
| 167                          | X                                       |  |  |

Table 3  
Norwood Landfill  
Surface Water and Sediment Sample Summary

| Sample ID                  | Date collected | Time Collected | Tide                     | Sample Location Description   |
|----------------------------|----------------|----------------|--------------------------|---|
| <b>Muckinipattis Creek</b> |                |                |                          |   |
| SW/SD-13                   | 10/6/2020      | 9:10 AM        | H 4:28 am<br>L 11:03 am  | Upstream background samples   |
| SW/SD-14                   | 10/6/2020      | 8:15 AM        | H 4:28 am<br>L 11:03 am  | Adjacent to northern edge of former WWTP                            |
| SW/SD-15                   | 10/6/2020      | 7:40 AM        | H 04:28 am<br>L 11:03 am | Adjacent to southern edge of former WWTP                            |
| SW/SD-16                   | 10/1/2020      | 8:40 AM        | H 1:03 am<br>L 7:59 am   | Adjacent to northern edge of Old Norwood Dump in wetland area       |
| SW/SD-17                   | 10/1/2020      | 7:20 AM        | H 1:03 am<br>L 7:59 am   | Adjacent to southern edge of Old Norwood Dump                       |
| SW/SD-18                   | 9/28/2020      | 4:00 PM        | H 11:12 am<br>L 5:53 pm  | Adjacent to fishing dock  |
| <b>Wetlands</b>            |                |                |                          |   |
| SD-19                      | 10/1/2020      | 9:15 AM        | H 1:03 am<br>L 7:59 am   | Muckinipattis Creek, adjacent to Old Norwood Dump                   |
| SD-20                      | 10/1/2020      | 8:15 AM        | H 1:03 am<br>L 7:59 am   | Muckinipattis Creek, adjacent to Old Norwood Dump                   |
| SD-21                      | 10/5/2020      | 10:30 AM       | H 3:46 am<br>L 10:29 am  | Darby Creek, adjacent to southern edge of Norwood Sanitary Landfill |
| SD-22                      | 9/29/2020      | 3:00 PM        | H 12:01 pm<br>L 6:43 pm  | Darby Creek, downstream of Norwood Sanitary Landfill                |
| SD-23                      | 9/29/2020      | 2:40 PM        | H 12:01 pm<br>L 6:43 pm  | Darby Creek, downstream of Norwood Sanitary Landfill                |

**Notes:**

H: High tide

L: Low tide

SD: Sediment

SW: Surface water

WWTP: Wastewater treatment plant

Table 4  
Norwood Landfill  
Non-Residential Soil Samples  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth (feet):<br>Sample Location:<br>VOC | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SS-21      | NL-2020-SB-21      | NL-2020-SS-22      | NL-2020-SB-22      | NL-2020-SS-23      | NL-2020-SB-23      | NL-2020-SS-24      |  |        |  |
|---|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|--------|--|
|   |                                   | MCOA16             | MCOA11             | MCOA17             | MCOA12             | MCOA18             | MCOA13             | MCOA19             |  |        |  |
|   |                                   | µg/kg<br>9/28/2020 | µg/kg<br>9/28/2020 | µg/kg<br>9/28/2020 | µg/kg<br>9/28/2020 | µg/kg<br>9/30/2020 | µg/kg<br>9/30/2020 | µg/kg<br>9/29/2020 |  |        |  |
|   |                                   | 0-0.08             | 15-16              | 0-1                | 12-13              | 0-1                | 16-17              | 0-1                |  |        |  |
| Background  |                                   | Background         |                    | Background/Park    |                    | Background/Park    |                    | Park               |  | Park   |  |
| Result  |                                   | Result             |                    | Result             |                    | Result             |                    | Result             |  | Result |  |
| Q   |                                   | Q                  |                    | Q                  |                    | Q                  |                    | Q                  |  | Q      |  |
| 1,2,4-trichlorobenzene  | 5800                              | 6 U                | 5.7 U              | 5.9 U              | 7.3 U              | 5.3 U              | 7.4 U              | 6.3 U              |  |        |  |
| Acetone   | 6100000                           | 12 U               | 5.8 J              | 12 U               | 6.7 J              | 11 U               | 15 U               | 13 U               |  |        |  |
| Benzene   | 1200                              | 6 U                | 5.7 U              | 5.9 U              | 7.3 U              | 5.3 U              | 7.4 U              | 6.3 U              |  |        |  |
| m,p-Xylene  | 55000                             | 6 U                | 5.7 U              | 5.9 U              | 7.3 U              | 5.3 U              | 7.4 U              | 6.3 U              |  |        |  |
| Styrene   | 600000                            | 6 U                | 5.7 U              | 5.9 U              | 7.3 U              | 5.3 U              | 7.4 U              | 6.3 U              |  |        |  |
| Tetrachloroethene   | 8100                              | 6 U                | 5.7 U              | 5.9 U              | 7.3 U              | 5.3 U              | 7.4 U              | 1.3 J              |  |        |  |
| <b>PAH SIM</b>  |                                   |                    |                    |                    |                    |                    |                    |                    |  |        |  |
| 2-Methylnaphthalene   | 24000                             | 3.9 U              | 4.1 U              | 2.1 J              | 3.7 U              | 4.1 U              | 3.4 U              | 1.2 J              |  |        |  |
| Acenaphthene  | 360000                            | 3.9 U              | 4.1 U              | 3.6 U              | 3.7 U              | 4.1 U              | 3.4 U              | 1 J                |  |        |  |
| Acenaphthylene  | NL                                | 3.9 U              | 4.1 U              | 0.98 J             | 3.7 U              | 0.86 J             | 3.4 U              | 1.4 J              |  |        |  |
| Anthracene  | 1800000                           | 3.9 U              | 4.1 U              | 1.4 J              | 3.7 U              | 4.1 U              | 3.4 U              | 1.6 J              |  |        |  |
| Benzo(a)anthracene  | 1100                              | 2 J                | 4.1 U              | 10                 | 3.7 U              | 4.5                | 3.4 U              | 4.3                |  |        |  |
| Benzo(a)pyrene  | 110                               | 2.3 J              | 4.1 U              | 11                 | 3.7 U              | 4.4                | 3.4 U              | 4.2                |  |        |  |
| Benzo(b)fluoranthene  | 1100                              | 2.4 J              | 4.1 U              | 20                 | 3.7 U              | 6.3                | 3.4 U              | 6.4                |  |        |  |
| Benzo(g,h,i)perylene  | NL                                | 1.6 J              | 4.1 U              | 9.2                | 3.7 U              | 2.9 J              | 3.4 U              | 3.2 J              |  |        |  |
| Benzo(k)fluoranthene  | 11000                             | 3.9 U              | 4.1 U              | 7                  | 3.7 U              | 2.3 J              | 3.4 U              | 2.5 J              |  |        |  |
| Chrysene  | 110000                            | 2.4 J              | 4.1 U              | 12                 | 3.7 U              | 4.4                | 3.4 U              | 4.7                |  |        |  |
| Dibenzo(a,h)anthracene  | 110                               | 3.9 U              | 4.1 U              | 2.2 J              | 3.7 U              | 4.1 U              | 3.4 U              | 1.6 J              |  |        |  |
| Fluoranthene  | 2400000                           | 4.8                | 4.1 U              | 21                 | 3.7 U              | 7.7                | 3.4 U              | 6.9                |  |        |  |
| Fluorene  | 240000                            | 3.9 U              | 4.1 U              | 3.6 U              | 3.7 U              | 4.1 U              | 3.4 U              | 1.1 J              |  |        |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 1.4 J              | 4.1 U              | 6.3                | 3.7 U              | 2.6 J              | 3.4 U              | 3 J                |  |        |  |
| Naphthalene   | 2000                              | 3.9 U              | 4.1 U              | 1.5 J              | 3.7 U              | 4.1 U              | 3.4 U              | 0.93 J             |  |        |  |
| Pentachlorophenol   | 1000                              | 8 U                | 8.2 U              | 7.3 U              | 7.5 U              | 8.3 U              | 7 U                | 4.8 J              |  |        |  |
| Phenanthrene  | NL                                | 1.8 J              | 4.1 U              | 7.6                | 3.7 U              | 3 J                | 3.4 U              | 3.3 J              |  |        |  |
| Pyrene  | 180000                            | 5.1                | 4.1 U              | 14                 | 3.7 U              | 8.8                | 3.4 U              | 7.2                |  |        |  |
| <b>SVOCs</b>  |                                   |                    |                    |                    |                    |                    |                    |                    |  |        |  |
| 1,1-Biphenyl  | 4700                              | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| 2,4-Dinitrophenol   | 13000                             | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| 2-Methylnaphthalene   | 24000                             | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| 2-Nitroaniline  | 63000                             | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| 3-Nitroaniline  | NL                                | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| 4,6-Dinitro-2-methylphenol  | 510                               | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| 4-Nitroaniline  | 25000                             | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| 4-Nitrophenol   | 390 U                             | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| Acenaphthene  | 360000                            | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Acenaphthylene  | NL                                | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Acetophenone  | 780000                            | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| Anthracene  | 1800000                           | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Benzaldehyde  | 170000                            | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| Benzo(a)anthracene  | 1100                              | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Benzo(a)pyrene  | 110                               | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Benzo(b)fluoranthene  | 1100                              | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Benzo(g,h,i)perylene  | NL                                | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Benzo(k)fluoranthene  | 11000                             | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Butylbenzylphthalate  | 290000                            | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Carbazole   | NL                                | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| Chrysene  | 110000                            | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Dibenzo(a,h)anthracene  | 110                               | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Dibenzofuran  | 7800                              | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Diethylphthalate  | 5100000                           | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Dimethylphthalate   | NL                                | 480                | 490                | 320                | 330                | 350                | 170 J              | 400                |  |        |  |
| Di-n-butylphthalate   | 630000                            | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Di-n-octyl phthalate  | 63000                             | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| Fluoranthene  | 240000                            | 390 U              | 410 U              | 360 U              | 370 U              | 410 U              | 340 U              | 380 U              |  |        |  |
| Fluorene  | 240000                            | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Naphthalene   | 2000                              | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Phenanthrene  | NL                                | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |
| Phenol  | 1900000                           | 390 U              | 43 J               | 360 U              | 370 U              | 85 J               | 38 J               | 52 J               |  |        |  |
| Pyrene  | 180000                            | 200 U              | 210 U              | 190 U              | 190 U              | 210 U              | 180 U              | 200 U              |  |        |  |

**Notes:**

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ.0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PAH = polycyclic aromatic hydrocarbon

Q = Qualifier

QC = Quality control

SIM = selective ion monitoring

SVOC = semivolatile organic compound

TR = Target Risk

VOC = volatile organic compound



Table 4  
Norwood Landfill  
Non-Residential Soil Samples  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth (feet):<br>Sample Location:<br>VOC | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SS-30 |   | NL-2020-SB-30 |   | NL-2020-SS-31 |   | NL-2020-SB-31 |   | NL-2020-SS-32 |   | NL-2020-SB-32 |   | NL-2020-SS-33 |  |
|---|-----------------------------------|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|--|
|   |                                   | MCOAK5        |   | MCOAN0        |   | MCOAK6        |   | MCOAN1        |   | MCOAK7        |   | MCOAN2        |   | MCOAK8        |  |
|   |                                   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |  |
|   |                                   | 10/1/2020     |   | 10/1/2020     |   | 9/28/2020     |   | 9/28/2020     |   | 10/1/2020     |   | 10/1/2020     |   | 9/30/2020     |  |
| 0-1   |                                   | 19-20         |   | 0-1           |   | 14-15         |   | 0-1           |   | 7-8           |   | 0-1           |   |               |  |
| Old Dump  |                                   | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |   |               |  |
| Result  | Q                                 | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q |               |  |
| 1,2,4-trichlorobenzene  | 5800                              | 6.7 U         |   | 5.8 U         |   | 6.9 U         |   | 5.9 U         |   | 5 U           |   | 6.8 U         |   | 5 U           |  |
| Acetone   | 6100000                           | 13 U          |   | 15 U          |   | 5.7 J         |   | 4.3 J         |   | 10 U          |   | 22 U          |   | 10 U          |  |
| Benzene   | 1200                              | 6.7 U         |   | 5.8 U         |   | 6.9 U         |   | 5.9 U         |   | 5 U           |   | 6.8 U         |   | 5 U           |  |
| m,p-Xylene  | 55000                             | 6.7 U         |   | 5.8 U         |   | 6.9 U         |   | 5.9 U         |   | 5 U           |   | 6.8 U         |   | 5 U           |  |
| Styrene   | 600000                            | 6.7 U         |   | 5.8 U         |   | 6.9 U         |   | 5.9 U         |   | 5 U           |   | 6.8 U         |   | 5 U           |  |
| Tetrachloroethene   | 8100                              | 6.7 U         |   | 5.8 U         |   | 6.9 U         |   | 5.9 U         |   | 5 U           |   | 6.8 U         |   | 5 U           |  |
| <b>PAH SIM</b>  |                                   |               |   |               |   |               |   |               |   |               |   |               |   |               |  |
| 2-Methylnaphthalene   | 24000                             | 1.8 J         |   | 3.8 U         |   |               |   | 1.7 J         |   | 0.91 J        |   | 4 U           |   | 20            |  |
| Acenaphthene  | 360000                            | 4 J           |   | 3.8 U         |   |               |   | 0.85 J        |   | 1.7 J         |   | 4 U           |   | 76            |  |
| Acenaphthylene  | NL                                | 4.7           |   | 3.8 U         |   |               |   | 8             |   | 1.7 J         |   | 4 U           |   | 100           |  |
| Anthracene  | 1800000                           | 13            |   | 3.8 U         |   |               |   | 5.2           |   | 3.8           |   | 4 U           |   | 530 J         |  |
| Benzo(a)anthracene  | 1100                              | 55            |   | 0.87 J        |   |               |   | 35            |   | 17            |   | 0.84 J        |   | 1900 J        |  |
| Benzo(a)pyrene  | 110                               | 41            |   | 0.77 J        |   |               |   | 41            |   | 20            |   | 4 U           |   | 1200 J        |  |
| Benzo(b)fluoranthene  | 1100                              | 58            |   | 1.2 J         |   |               |   | 57            |   | 38            |   | 1.2 J         |   | 1700 J        |  |
| Benzo(g,h,i)perylene  | NL                                | 19            |   | 3.8 U         |   |               |   | 28            |   | 13            |   | 4 U           |   | 620 J         |  |
| Benzo(k)fluoranthene  | 11000                             | 21            |   | 3.8 U         |   |               |   | 16            |   | 11            |   | 4 U           |   | 520 J         |  |
| Chrysene  | 110000                            | 42            |   | 0.83 J        |   |               |   | 37            |   | 26            |   | 0.92 J        |   | 1300 J        |  |
| Dibenzo(a,h)anthracene  | 110                               | 7.5           |   | 3.8 U         |   |               |   | 9.5           |   | 4.1           |   | 4 U           |   | 250           |  |
| Fluoranthene  | 240000                            | 82            |   | 1.4 J         |   |               |   | 43            |   | 56            |   | 1.6 J         |   | 3000 J        |  |
| Fluorene  | 240000                            | 5.3           |   | 3.8 U         |   |               |   | 0.99 J        |   | 2 J           |   | 4 U           |   | 110           |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 21            |   | 3.8 U         |   |               |   | 28            |   | 13            |   | 4 U           |   | 730 J         |  |
| Naphthalene   | 2000                              | 2.1 J         |   | 3.8 U         |   |               |   | 2.2 J         |   | 1 J           |   | 4 U           |   | 15            |  |
| Pentachlorophenol   | 1000                              | 4.4 J         |   | 7.8 U         |   |               |   | 7.9 U         |   | 7.6 U         |   | 8 U           |   | 7.4 U         |  |
| Phenanthrene  | NL                                | 48            |   | 3.8 U         |   |               |   | 14            |   | 36            |   | 4 U           |   | 1500 J        |  |
| Pyrene  | 180000                            | 70            |   | 1.3 J         |   |               |   | 31            |   | 41            |   | 1.3 J         |   | 2800 J        |  |
| <b>SVOCs</b>  |                                   |               |   |               |   |               |   |               |   |               |   |               |   |               |  |
| 1,1-Biphenyl  | 4700                              | 210 U         |   | 200 U         |   | 51 J          |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| 2,4-Dinitrophenol   | 13000                             | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| 2-Methylnaphthalene   | 24000                             | 210 U         |   | 200 U         |   | 230           |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| 2-Nitroaniline  | 63000                             | 210 U         |   | 200 U         |   | 200 U         |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| 3-Nitroaniline  | NL                                | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| 4,6-Dinitro-2-methylphenol  | 510                               | 410 U         |   | 380 U         |   | 400 R         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 R         |  |
| 4-Nitroaniline  | 25000                             | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| 4-Nitrophenol   | NL                                | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| Acenaphthene  | 360000                            | 210 U         |   | 200 U         |   | 390           |   | 200 U         |   | 190 U         |   | 200 U         |   | 88 J          |  |
| Acenaphthylene  | NL                                | 210 U         |   | 200 U         |   | 5 J           |   | 200 U         |   | 190 U         |   | 200 U         |   | 46 J          |  |
| Acetophenone  | 780000                            | 410 U         |   | 380 U         |   | 53 J          |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| Anthracene  | 1800000                           | 210 U         |   | 200 U         |   | 1300          |   | 200 U         |   | 190 U         |   | 200 U         |   | 500           |  |
| Benzaldehyde  | 170000                            | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| Benzo(a)anthracene  | 1100                              | 45 J          |   | 200 U         |   | 2600          |   | 44 J          |   | 190 U         |   | 200 U         |   | 1900          |  |
| Benzo(a)pyrene  | 110                               | 210 U         |   | 200 U         |   | 2200          |   | 43 J          |   | 190 U         |   | 200 U         |   | 1600          |  |
| Benzo(b)fluoranthene  | 1100                              | 47 J          |   | 200 U         |   | 2600          |   | 60 J          |   | 190 U         |   | 200 U         |   | 2100          |  |
| Benzo(g,h,i)perylene  | NL                                | 210 U         |   | 200 U         |   | 1300          |   | 200 U         |   | 190 U         |   | 200 U         |   | 860           |  |
| Benzo(k)fluoranthene  | 11000                             | 210 U         |   | 200 U         |   | 1000          |   | 200 U         |   | 190 U         |   | 200 U         |   | 690           |  |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 210 U         |   | 200 U         |   | 55 J          |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| Butylbenzylphthalate  | 290000                            | 210 U         |   | 200 U         |   | 200 U         |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| Carbazole   | NL                                | 410 U         |   | 380 U         |   | 290 J         |   | 390 U         |   | 380 U         |   | 400 U         |   | 42 J          |  |
| Chrysene  | 110000                            | 210 U         |   | 200 U         |   | 2200          |   | 46 J          |   | 190 U         |   | 200 U         |   | 1600          |  |
| Dibenzo(a,h)anthracene  | 110                               | 210 U         |   | 200 U         |   | 440           |   | 200 U         |   | 190 U         |   | 200 U         |   | 330           |  |
| Dibenzofuran  | 7800                              | 210 U         |   | 200 U         |   | 440           |   | 200 U         |   | 190 U         |   | 200 U         |   | 73 J          |  |
| Diethylphthalate  | 5100000                           | 210 U         |   | 200 U         |   | 200 U         |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| Dimethylphthalate   | NL                                | 220           |   | 370           |   | 210           |   | 210           |   | 230           |   | 500           |   | 130 J         |  |
| Di-n-butylphthalate   | 630000                            | 210 U         |   | 200 U         |   | 200 U         |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| Di-n-octyl phthalate  | 63000                             | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 400 U         |   | 370 U         |  |
| Fluoranthene  | 240000                            | 78 J          |   | 380 U         |   | 4800          |   | 42 J          |   | 50 J          |   | 400 U         |   | 3000          |  |
| Fluorene  | 240000                            | 210 U         |   | 200 U         |   | 650           |   | 200 U         |   | 190 U         |   | 200 U         |   | 120 J         |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 210 U         |   | 200 U         |   | 1300          |   | 200 U         |   | 190 U         |   | 200 U         |   | 910           |  |
| Naphthalene   | 2000                              | 210 U         |   | 200 U         |   | 240           |   | 200 U         |   | 190 U         |   | 200 U         |   | 190 U         |  |
| Phenanthrene  | NL                                | 42 J          |   | 200 U         |   | 4600          |   | 200 U         |   | 190 U         |   | 200 U         |   | 1600          |  |
| Phenol  | 1900000                           | 410 U         |   | 380 U         |   | 400 U         |   | 390 U         |   | 380 U         |   | 54 J          |   | 370 U         |  |
| Pyrene  | 180000                            | 63 J          |   | 200 U         |   | 4800          |   | 45 J          |   | 39 J          |   | 200 U         |   | 2900          |  |

**Notes:**  
Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).  
Bold values indicate exceedance of residential RSL.  
Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.  
UI = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
QC = Quality control  
SIM = selective ion monitoring  
SVOC = semivolatle organic compound  
TR = Target Risk  
VOC = volatile organic compound







Table 4  
Norwood Landfill  
Non-Residential Soil Samples  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth (feet):<br>Sample Location:<br>VOC | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SB-39C | NL-2020-S5-39A | NL-2020-SB-39A | NL-2020-S5-40 | NL-2020-SB-40 | NL-2020-S5-41 | NL-2020-SB-41 |  |
|---|-----------------------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|--|
|   |                                   | MCOAN9         | MCOAS4         | MCOAS3         | MCOAL5        | MCOAPO        | MCOAL6        | MCOAP1        |  |
|   |                                   | µg/kg          | µg/kg          | µg/kg          | µg/kg         | µg/kg         | µg/kg         | µg/kg         |  |
|   |                                   | 9/29/2020      | 9/29/2020      | 9/29/2020      | 9/28/2020     | 9/28/2020     | 9/28/2020     | 9/28/2020     |  |
| Landfill  |                                   | Landfill/Road  |                | Landfill/Road  |               | Landfill      |               | Landfill      |  |
| Result Q  |                                   | Result Q       |                | Result Q       |               | Result Q      |               | Result Q      |  |
| 1,2,4-trichlorobenzene  | 5800                              | 5.4 U          | 5.2 U          | 4.9 U          | 0.54 J        | 0.49 J        | 1.3 J         | 6.5 U         |  |
| Acetone   | 6100000                           | 11 U           | 10 U           | 9.9 U          | 3.9 J         | 3.7 J         | 5 J           | 20            |  |
| Benzene   | 1200                              | 5.4 U          | 5.2 U          | 4.9 U          | 6.3 U         | 5.1 U         | 6 U           | 6.5 U         |  |
| m,p-Xylene  | 55000                             | 5.4 U          | 5.2 U          | 4.9 U          | 6.3 U         | 5.1 U         | 6 U           | 6.5 U         |  |
| Styrene   | 600000                            | 5.4 U          | 5.2 U          | 4.9 U          | 6.3 U         | 5.1 U         | 6 U           | 6.5 U         |  |
| Tetrachloroethene   | 8100                              | 5.4 U          | 5.2 U          | 4.9 U          | 6.3 U         | 5.1 U         | 6 U           | 6.5 U         |  |
| <b>PAH SIM</b>  |                                   |                |                |                |               |               |               |               |  |
| 2-Methylnaphthalene   | 24000                             | 3.9 U          | 1.4 J          | 3.9 U          | 2.3 J         | 3.8 U         | 5.7           | 25            |  |
| Acenaphthene  | 360000                            | 3.9 U          | 2.8 J          | 3.9 U          | 1.9 J         | 3.8 U         | 15            | 34            |  |
| Acenaphthylene  | NL                                | 3.9 U          | 20             | 3.9 U          | 3.7 J         | 3.8 U         | 22            | 49            |  |
| Anthracene  | 1800000                           | 3.9 U          | 17             | 3.9 U          | 6.6           | 3.8 U         | 67            | 110           |  |
| Benzo(a)anthracene  | 1100                              | 3.9 U          | 66             | 3.9 U          | 35            | 0.8 J         | 230           | 470 J         |  |
| Benzo(a)pyrene  | 110                               | 3.9 U          | 74             | 3.9 U          | 39            | 3.8 U         | 350 J         | 400 J         |  |
| Benzo(b)fluoranthene  | 1100                              | 3.9 U          | 100            | 3.9 U          | 56            | 1.3 J         | 620 J         | 580 J         |  |
| Benzo(g,h,i)perylene  | NL                                | 3.9 U          | 79             | 3.9 U          | 27            | 3.8 U         | 450 J         | 240           |  |
| Benzo(k)fluoranthene  | 11000                             | 3.9 U          | 28             | 3.9 U          | 19            | 3.8 U         | 160           | 180           |  |
| Chrysene  | 110000                            | 3.9 U          | 67             | 3.9 U          | 38            | 0.91 J        | 200           | 370 J         |  |
| Dibenzo(a,h)anthracene  | 110                               | 3.9 U          | 19             | 3.9 U          | 8             | 3.8 U         | 110           | 76            |  |
| Fluoranthene  | 240000                            | 0.9 J          | 110            | 3.9 U          | 69            | 1.5 J         | 400 J         | 770 J         |  |
| Fluorene  | 240000                            | 3.9 U          | 3.9            | 3.9 U          | 3.2 J         | 3.8 U         | 20            | 41            |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 3.9 U          | 49             | 3.9 U          | 25            | 3.8 U         | 460 J         | 230           |  |
| Naphthalene   | 2000                              | 3.9 U          | 1.7 J          | 3.9 U          | 2.1 J         | 3.8 U         | 11            | 52            |  |
| Pentachlorophenol   | 1000                              | 7.8 U          | 7.2 U          | 8 U            | 7.8 U         | 7.6 U         | 2.2 J         | 13            |  |
| Phenanthrene  | NL                                | 3.9 U          | 42             | 3.9 U          | 27            | 3.8 U         | 200           | 390 J         |  |
| Pyrene  | 180000                            | 1 J            | 110            | 0.91 J         | 48            | 0.97 J        | 310           | 680 J         |  |
| <b>SVOCs</b>  |                                   |                |                |                |               |               |               |               |  |
| 1,1-Biphenyl  | 4700                              | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| 2,4-Dinitrophenol   | 13000                             | 390 U          | 360 UJ         | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| 2-Methylnaphthalene   | 24000                             | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| 2-Nitroaniline  | 63000                             | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| 3-Nitroaniline  | NL                                | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| 4,6-Dinitro-2-methylphenol  | 510                               | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| 4-Nitroaniline  | 25000                             | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| 4-Nitrophenol   | NL                                | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| Acenaphthene  | 360000                            | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| Acenaphthylene  | NL                                | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| Acetophenone  | 780000                            | 390 U          | 58 J           | 390 U          | 380 U         | 380 U         | 84 J          | 430 U         |  |
| Anthracene  | 1800000                           | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 54 J          | 110 J         |  |
| Benzaldehyde  | 170000                            | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| Benzo(a)anthracene  | 1100                              | 200 U          | 84 J           | 200 U          | 42 J          | 190 U         | 190 J         | 420           |  |
| Benzo(a)pyrene  | 110                               | 200 U          | 110 J          | 200 U          | 40 J          | 190 U         | 280           | 390           |  |
| Benzo(b)fluoranthene  | 1100                              | 200 U          | 87 J           | 200 U          | 60 J          | 190 U         | 480           | 520           |  |
| Benzo(g,h,i)perylene  | NL                                | 200 U          | 110 J          | 200 U          | 200 U         | 190 U         | 390           | 240           |  |
| Benzo(k)fluoranthene  | 11000                             | 200 U          | 88 J           | 200 U          | 200 U         | 190 U         | 100 J         | 160 J         |  |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220           | 1800          |  |
| Butylbenzylphthalate  | 290000                            | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 230           |  |
| Carbazole   | NL                                | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 430 U         |  |
| Chrysene  | 110000                            | 200 U          | 97 J           | 200 U          | 45 J          | 190 U         | 190 J         | 420           |  |
| Dibenzo(a,h)anthracene  | 110                               | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 97 J          | 79 J          |  |
| Dibenzofuran  | 7800                              | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| Diethylphthalate  | 5100000                           | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| Dimethylphthalate   | NL                                | 210            | 250            | 200            | 200           | 370           | 250           | 340           |  |
| Di-n-butylphthalate   | 630000                            | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 85 J          |  |
| Di-n-octyl phthalate  | 63000                             | 390 U          | 360 U          | 390 U          | 380 U         | 380 U         | 430 U         | 4000          |  |
| Fluoranthene  | 240000                            | 390 U          | 150 J          | 390 U          | 75 J          | 380 U         | 320 J         | 760           |  |
| Fluorene  | 240000                            | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 200 U          | 77 J           | 200 U          | 200 U         | 190 U         | 390           | 220           |  |
| Naphthalene   | 2000                              | 200 U          | 180 U          | 200 U          | 200 U         | 190 U         | 220 U         | 220 U         |  |
| Phenanthrene  | NL                                | 200 U          | 61 J           | 200 U          | 200 U         | 190 U         | 170 J         | 390           |  |
| Phenol  | 1900000                           | 45 J           | 47 J           | 42 J           | 380 U         | 380 U         | 430 U         | 430 U         |  |
| Pyrene  | 180000                            | 200 U          | 140 J          | 200 U          | 65 J          | 190 U         | 280           | 680           |  |

**Notes:**  
Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ,0.1 (EPA, 2020).  
Bold values indicate exceedance of residential RSL.  
Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.  
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
QC = Quality control  
SIM = selective ion monitoring  
SVOC = semivolatle organic compound  
TR = Target Risk  
VOC = volatile organic compound

Table 4  
Norwood Landfill  
Non-Residential Soil Samples  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth (feet):<br>Sample Location: | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SS-42 | NL-2020-SB-42 | NL-2020-SB-42-01 | NL-2020-SS-43 | NL-2020-SB-43 | NL-2020-SS-44 | NL-2020-SB-44 |  |
|--|-----------------------------------|---------------|---------------|------------------|---------------|---------------|---------------|---------------|--|
|  |                                   | MCOAL7        | MCOAP2        | MCOAS2           | MCOAL8        | MCOAP3        | MCOAL9        | MCOAP4        |  |
|  |                                   | µg/kg         | µg/kg         | µg/kg            | µg/kg         | µg/kg         | µg/kg         | µg/kg         |  |
|  |                                   | 9/28/2020     | 9/28/2020     | 9/28/2020        | 9/29/2020     | 9/29/2020     | 9/29/2020     | 9/29/2020     |  |
| 0-0.5  |                                   | 2-3           |               | 2-3              |               | 0-0.5         |               | 2-3           |  |
| Landfill   |                                   | Landfill      |               | Landfill         |               | Landfill      |               | Landfill      |  |
| Result   |                                   | Result        |               | Result           |               | Result        |               | Result        |  |
| Q  |                                   | Q             |               | Q                |               | Q             |               | Q             |  |
| VOC  |                                   |               |               |                  |               |               |               |               |  |
| 1,2,4-trichlorobenzene   | 5800                              | 0.9 J         | 5.7 U         | 5.7 U            | 7 U           | 10 U          | 6.3 U         | 6.9 U         |  |
| Acetone  | 6100000                           | 12 U          | 5.8 J         | 11 U             | 14 U          | 20 U          | 13 U          | 14 U          |  |
| Benzene  | 1200                              | 6.1 U         | 5.7 U         | 5.7 U            | 7 U           | 10 U          | 6.3 U         | 6.9 U         |  |
| m,p-Xylene   | 55000                             | 6.1 U         | 5.7 U         | 5.7 U            | 7 U           | 10 U          | 6.3 U         | 6.9 U         |  |
| Styrene  | 600000                            | 6.1 U         | 5.7 U         | 5.7 U            | 7 U           | 10 U          | 6.3 U         | 6.9 U         |  |
| Tetrachloroethene  | 8100                              | 6.1 U         | 5.7 U         | 5.7 U            | 7 U           | 10 U          | 6.3 U         | 6.9 U         |  |
| <b>PAH SIM</b>   |                                   |               |               |                  |               |               |               |               |  |
| 2-Methylnaphthalene  | 24000                             | 2 J           |               |                  | 29            | 45            | 6.9           | 7.9           |  |
| Acenaphthene   | 360000                            | 1.8 J         |               |                  | 94            | 410           | 15            | 14            |  |
| Acenaphthylene   | NL                                | 1.9 J         |               |                  | 43            | 71            | 18            | 8.8           |  |
| Anthracene   | 1800000                           | 6.3           |               |                  | 290           | 240           | 51            | 34            |  |
| Benzo(a)anthracene   | 1100                              | 38            |               |                  | 970 J         | 1000 J        | 210           | 87            |  |
| Benzo(a)pyrene   | 110                               | 34            |               |                  | 670 J         | 1200 J        | 190           | 70            |  |
| Benzo(b)fluoranthene   | 1100                              | 48            |               |                  | 1000 J        | 1500 J        | 270           | 100           |  |
| Benzo(g,h,i)perylene   | NL                                | 20            |               |                  | 320           | 1300 J        | 110           | 66            |  |
| Benzo(k)fluoranthene   | 11000                             | 16            |               |                  | 330           | 390           | 85            | 42            |  |
| Chrysene   | 110000                            | 37            |               |                  | 730 J         | 1000 J        | 180           | 73            |  |
| Dibenzo(a,h)anthracene   | 110                               | 6.5           |               |                  | 130           | 150           | 34            | 21            |  |
| Fluoranthene   | 240000                            | 46            |               |                  | 1700 J        | 3900 J        | 370           | 160           |  |
| Fluorene   | 240000                            | 2.4 J         |               |                  | 95            | 140           | 16            | 13            |  |
| Indeno(1,2,3-cd)pyrene   | 1100                              | 20            |               |                  | 370 J         | 790 J         | 100           | 63            |  |
| Naphthalene  | 2000                              | 1.9 J         |               |                  | 52            | 64            | 29            | 56            |  |
| Pentachlorophenol  | 1000                              | 1.9 J         |               |                  | 8.5 J         | 29            | 9.9           | 5.7 J         |  |
| Phenanthrene   | NL                                | 32            |               |                  | 1200 J        | 3200 J        | 230           | 130           |  |
| Pyrene   | 180000                            | 50            |               |                  | 1400 J        | 6200 J        | 340           | 140           |  |
| <b>SVOCs</b>   |                                   |               |               |                  |               |               |               |               |  |
| 1,1-Biphenyl   | 4700                              | 210 U         | 160 J         | 250              | 220 U         | 300 U         | 210 U         | 230 U         |  |
| 2,4-Dinitrophenol  | 13000                             | 400 U         | 380 U         | 370 U            | 420 U         | 580 U         | 410 U         | 450 U         |  |
| 2-Methylnaphthalene  | 24000                             | 210 U         | 420           | 640              | 220 U         | 300 U         | 210 U         | 230 U         |  |
| 2-Nitroaniline   | 63000                             | 210 U         | 200 U         | 190 U            | 220 U         | 300 U         | 210 U         | 230 U         |  |
| 3-Nitroaniline   | NL                                | 400 U         | 380 U         | 370 U            | 420 U         | 580 U         | 410 U         | 450 U         |  |
| 4,6-Dinitro-2-methylphenol   | 510                               | 400 U         | 380 U         | 370 R            | 420 U         | 580 U         | 410 U         | 450 U         |  |
| 4-Nitroaniline   | 25000                             | 400 U         | 380 U         | 370 U            | 420 U         | 580 U         | 410 U         | 450 U         |  |
| 4-Nitrophenol  | NL                                | 400 U         | 380 U         | 370 U            | 420 U         | 580 U         | 410 U         | 450 U         |  |
| Acenaphthene   | 360000                            | 210 U         | 1300          | 1700             | 86 J          | 450           | 210 U         | 230 U         |  |
| Acenaphthylene   | NL                                | 210 U         | 860           | 930              | 220 U         | 300 U         | 210 U         | 230 U         |  |
| Acetophenone   | 780000                            | 400 U         | 380 U         | 370 U            | 420 U         | 62 J          | 410 U         | 70 J          |  |
| Anthracene   | 1800000                           | 210 U         | 5000          | 5700             | 230           | 210 J         | 210 U         | 230 U         |  |
| Benzaldehyde   | 170000                            | 400 U         | 380 U         | 370 U            | 420 U         | 580 U         | 85 J          | 190 J         |  |
| Benzo(a)anthracene   | 1100                              | 45 J          | 7300          | 7000             | 760           | 1100          | 200 J         | 88 J          |  |
| Benzo(a)pyrene   | 110                               | 210 U         | 4800          | 4100             | 620           | 1400          | 180 J         | 72 J          |  |
| Benzo(b)fluoranthene   | 1100                              | 56 J          | 5400          | 5100             | 820           | 1600          | 270           | 100 J         |  |
| Benzo(g,h,i)perylene   | NL                                | 210 U         | 1800          | 1500             | 320           | 1700          | 110 J         | 49 J          |  |
| Benzo(k)fluoranthene   | 11000                             | 210 U         | 1700          | 1400             | 360           | 490           | 79 J          | 230 U         |  |
| Bis(2-ethylhexyl)phthalate   | 39000                             | 110 J         | 290           | 190 U            | 120 J         | 1500          | 1100          | 370           |  |
| Butylbenzylphthalate   | 290000                            | 210 U         | 84 J          | 190 U            | 220 U         | 300 U         | 69 J          | 230 U         |  |
| Carbazole  | NL                                | 400 U         | 960           | 1300             | 140 J         | 71 J          | 410 U         | 450 U         |  |
| Chrysene   | 110000                            | 46 J          | 6700          | 6400             | 720           | 1400          | 210           | 86 J          |  |
| Dibenzo(a,h)anthracene   | 110                               | 210 U         | 760           | 680              | 110 J         | 180 J         | 44 J          | 230 U         |  |
| Dibenzofuran   | 7800                              | 210 U         | 1200          | 1700             | 64 J          | 300 U         | 210 U         | 230 U         |  |
| Diethylphthalate   | 5100000                           | 210 U         | 200 U         | 190 U            | 220 U         | 130 J         | 210 U         | 230 U         |  |
| Dimethylphthalate  | NL                                | 320           | 310           | 250              | 250           | 320           | 230           | 340           |  |
| Di-n-butylphthalate  | 630000                            | 210 U         | 220           | 120 J            | 93 J          | 390           | 210 U         | 230 U         |  |
| Di-n-octyl phthalate   | 63000                             | 400 U         | 380 U         | 370 U            | 420 U         | 580 U         | 410 U         | 450 U         |  |
| Fluoranthene   | 240000                            | 84 J          | 15000         | 15000            | 1400          | 3900          | 350 J         | 170 J         |  |
| Fluorene   | 240000                            | 210 U         | 2300          | 3600             | 80 J          | 150 J         | 210 U         | 230 U         |  |
| Indeno(1,2,3-cd)pyrene   | 1100                              | 210 U         | 1900          | 1600             | 350           | 960           | 110 J         | 230 U         |  |
| Naphthalene  | 2000                              | 210 U         | 420           | 450              | 52 J          | 300 U         | 210 U         | 230 U         |  |
| Phenanthrene   | NL                                | 210 U         | 18000         | 21000            | 1100          | 3400          | 230           | 140 J         |  |
| Phenol   | 1900000                           | 400 U         | 47 J          | 370 U            | 46 J          | 580 U         | 410 U         | 450 U         |  |
| Pyrene   | 180000                            | 74 J          | 13000         | 13000            | 1200          | 7000          | 320           | 150 J         |  |

**Notes:**

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

NI = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PAH = polycyclic aromatic hydrocarbon

Q = Qualifier

QC = Quality control

SIM = selective ion monitoring

SVOC = semivolatle organic compound

TR = Target Risk

VOC = volatile organic compound

Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SS-21 | NL-2020-SB-21 | NL-2020-SS-22   | NL-2020-SB-22   | NL-2020-SS-23 | NL-2020-SB-23 | NL-2020-SS-24 |
|------------------------------|-----------------------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|---------------|
| CLP Sample Number:           |                                   | MCOAJ6        | MCOAM1        | MCOAJ7          | MCOAM2          | MCOAJ8        | MCOAM3        | MCOAJ9        |
| Units:                       |                                   | µg/kg         | µg/kg         | µg/kg           | µg/kg           | µg/kg         | µg/kg         | µg/kg         |
| Sample Date:                 |                                   | 9/28/2020     | 9/28/2020     | 9/28/2020       | 9/28/2020       | 9/30/2020     | 9/30/2020     | 9/29/2020     |
| Sample Depth (feet):         |                                   | 0-0.08        | 15-16         | 0-1             | 12-13           | 0-1           | 16-17         | 0-1           |
| Sample Location:             |                                   | BACKGROUND    | BACKGROUND    | Background/Park | Background/Park | Park          | Park          | Park          |
| PCB                          | Result                            | Q             | Result        | Q               | Result          | Q             | Result        | Q             |
| Aroclor-1248                 | 230                               | 40 U          | 40 U          | 36 U            | 37 U            | 41 U          | 34 U          | 38 U          |
| Aroclor-1254                 | 120                               | 40 U          | 40 U          | 36 U            | 37 U            | 41 U          | 34 U          | 38 U          |
| Aroclor-1260                 | 240                               | 40 U          | 40 U          | 36 U            | 37 U            | 41 U          | 34 U          | 38 U          |
| Aroclor-1268                 | NL                                | 40 U          | 40 U          | 36 U            | 37 U            | 41 U          | 34 U          | 38 U          |
| <b>Pesticides</b>            |                                   |               |               |                 |                 |               |               |               |
| 4,4-DDD                      | 190                               | 3.9 U         | 4.1 U         | 3.6 U           | 3.7 U           | 4.1 U         | 3.4 U         | 3.8 U         |
| 4,4-DDE                      | 2000                              | 1.2 J         | 4.1 U         | 0.59 J          | 3.7 U           | 4.1 U         | 3.4 U         | 3.8 U         |
| 4,4-DDT                      | 1900                              | 1.3 J         | 4.1 U         | 0.58 J          | 3.7 U           | 4.1 U         | 3.4 U         | 3.8 U         |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 2 U           | 2.1 U         | 1.9 U           | 1.9 U           | 2.1 U         | 1.8 U         | 2 U           |
| Dieldrin                     | 34                                | 3.9 U         | 4.1 U         | 3.6 U           | 3.7 U           | 4.1 U         | 3.4 U         | 3.8 U         |
| Endrin                       | 1900                              | 3.9 U         | 4.1 U         | 3.6 U           | 3.7 U           | 4.1 U         | 3.4 U         | 3.8 U         |
| gamma-BHC (Lindane)          | 570                               | 2 U           | 2.1 U         | 1.9 U           | 1.9 U           | 2.1 U         | 1.8 U         | 2 U           |
| Heptachlor epoxide           | 70                                | 2 U           | 2.1 U         | 1.9 U           | 1.9 U           | 2.1 U         | 1.8 U         | 2 U           |
| trans-Chlordane <sup>1</sup> | 1,700                             | 2 U           | 2.1 U         | 1.9 U           | 1.9 U           | 2.1 U         | 1.8 U         | 2 U           |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ.0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SB-24 | NL-2020-SS-25 | NL-2020-SB-25 | NL-2020-SS-28 | NL-2020-SB-28 | NL-2020-SS-29 | NL-2020-SB-29 |   |       |  |        |  |       |  |
|------------------------------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|-------|--|--------|--|-------|--|
| CLP Sample Number:           |                                   | MCOAM4        | MCOAK0        | MCOAM5        | MCOAK3        | MCOAM8        | MCOAK4        | MCOAM9        |   |       |  |        |  |       |  |
| Units:                       |                                   | µg/kg         | µg/kg         | µg/kg         | µg/kg         | µg/kg         | µg/kg         | µg/kg         |   |       |  |        |  |       |  |
| Sample Date:                 |                                   | 9/29/2020     | 9/28/2020     | 9/28/2020     | 9/30/2020     | 9/30/2020     | 10/1/2020     | 10/1/2020     |   |       |  |        |  |       |  |
| Sample Depth (feet):         |                                   | 6-7           | 1-2           | 5-6           | 0-1           | 15-16         | 0-1           | 8-9           |   |       |  |        |  |       |  |
| Sample Location:             |                                   | Park          | ROW           | ROW           | Old Dump      | Old Dump      | Old Dump      | Old Dump      |   |       |  |        |  |       |  |
| PCB                          |                                   | Result        | Q             | Result        | Q             | Result        | Q             | Result        | Q |       |  |        |  |       |  |
| Aroclor-1248                 | 230                               | 41 U          |               | 39 U          |               | 37 U          |               | 37 U          |   | 35 U  |  | 40 U   |  | 38 U  |  |
| Aroclor-1254                 | 120                               | 41 U          |               | 39 U          |               | 37 U          |               | 37 U          |   | 35 U  |  | 40 U   |  | 38 U  |  |
| Aroclor-1260                 | 240                               | 41 U          |               | 39 U          |               | 37 U          |               | 37 U          |   | 35 U  |  | 68 J   |  | 38 U  |  |
| Aroclor-1268                 | NL                                | 41 U          |               | 39 U          |               | 37 U          |               | 37 U          |   | 35 U  |  | 40 U   |  | 38 U  |  |
| Pesticides                   |                                   |               |               |               |               |               |               |               |   |       |  |        |  |       |  |
| 4,4-DDD                      | 190                               | 4.1 U         |               | 3.9 U         |               | 3.7 U         |               | 3.7 U         |   | 3.5 U |  | 2.1 J  |  | 3.8 U |  |
| 4,4-DDE                      | 2000                              | 4.1 U         |               | 3.9 U         |               | 3.7 U         |               | 3.7 U         |   | 3.5 U |  | 2.6 J  |  | 3.8 U |  |
| 4,4-DDT                      | 1900                              | 4.1 U         |               | 3.9 U         |               | 3.7 U         |               | 0.44 J        |   | 3.5 U |  | 4 U    |  | 3.8 U |  |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 2.1 U         |               | 2 U           |               | 1.9 U         |               | 0.22 J        |   | 1.8 U |  | 2.6 J  |  | 1.9 U |  |
| Dieldrin                     | 34                                | 4.1 U         |               | 3.9 U         |               | 3.7 U         |               | 3.7 U         |   | 3.5 U |  | 0.81 R |  | 3.8 U |  |
| Endrin                       | 1900                              | 4.1 U         |               | 3.9 U         |               | 3.7 U         |               | 3.7 U         |   | 3.5 U |  | 0.79 J |  | 3.8 U |  |
| gamma-BHC (Lindane)          | 570                               | 2.1 U         |               | 2 U           |               | 1.9 U         |               | 1.9 U         |   | 1.8 U |  | 2.1 U  |  | 1.9 U |  |
| Heptachlor epoxide           | 70                                | 2.1 U         |               | 2 U           |               | 1.9 U         |               | 1.9 U         |   | 1.8 U |  | 0.56 R |  | 1.9 U |  |
| trans-Chlordane <sup>1</sup> | 1,700                             | 2.1 U         |               | 2 U           |               | 1.9 U         |               | 1.9 U         |   | 1.8 U |  | 1.2 R  |  | 1.9 U |  |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | <b>EPA RSL<br/>Residential<br/>(µg/kg)</b> | NL-2020-SS-30 |   | NL-2020-SB-30 |   | NL-2020-SS-31 |   | NL-2020-SB-31 |   | NL-2020-SS-32 |   | NL-2020-SB-32 |   | NL-2020-SS-33 |    |
|------------------------------|--|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|----|
| CLP Sample Number:           |  | MCOAK5        |   | MCOAN0        |   | MCOAK6        |   | MCOAN1        |   | MCOAK7        |   | MCOAN2        |   | MCOAK8        |    |
| Units:                       |  | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |    |
| Sample Date:                 |  | 10/1/2020     |   | 10/1/2020     |   | 9/28/2020     |   | 9/28/2020     |   | 10/1/2020     |   | 10/1/2020     |   | 9/30/2020     |    |
| Sample Depth (feet):         |  | 0-1           |   | 19-20         |   | 0-1           |   | 14-15         |   | 0-1           |   | 7-8           |   | 0-1           |    |
| Sample Location:             |  | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |   | Old Dump      |    |
| PCB                          |  | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q  |
| Aroclor-1248                 | 230  | 41            | U | 39            | U | 40            | U | 39            | U | 38            | U | 40            | U | 37            | U  |
| Aroclor-1254                 | 120  | 41            | U | 5.4           | J | 40            | U | 39            | U | 38            | U | 40            | U | 37            | U  |
| Aroclor-1260                 | 240  | 71            |   | 39            | U | 40            | U | 39            | U | 17            | J | 40            | U | 37            | U  |
| Aroclor-1268                 | NL   | 41            | U | 39            | U | 40            | U | 39            | U | 38            | U | 40            | U | 37            | U  |
| <b>Pesticides</b>            |  |               |   |               |   |               |   |               |   |               |   |               |   |               |    |
| 4,4-DDD                      | 190  | 1.1           | J | 3.8           | U | 8.5           | J | 1.4           | J | 0.27          | R | 4             | U | 0.54          | J  |
| 4,4-DDE                      | 2000                                       | 1.4           | J | 0.41          | J | 3.1           | J | 1.5           | J | 0.34          | J | 4             | U | 0.6           | J  |
| 4,4-DDT                      | 1900                                       | 4.1           | U | 3.8           | U | 16            |   | 2.8           | J | 3.8           | U | 4             | U | 1             | J  |
| cis-Chlordane <sup>1</sup>   | 1,700                                      | 3.8           | J | 0.26          | J | 7.6           | J | 0.34          | J | 1.5           | J | 2             | U | 1.9           | UJ |
| Dieldrin                     | 34   | 0.63          | R | 3.8           | U | 2.4           | R | 3.9           | U | 0.43          | R | 4             | U | 3.7           | UJ |
| Endrin                       | 1900                                       | 0.76          | J | 0.27          | J | 4             | U | 3.9           | U | 3.8           | U | 4             | U | 3.7           | UJ |
| gamma-BHC (Lindane)          | 570  | 2.1           | U | 2             | U | 12            |   | 2             | U | 0.24          | R | 2             | U | 1.9           | UJ |
| Heptachlor epoxide           | 70   | 0.61          | R | 0.2           | J | 2             | U | 2             | U | 1.9           | U | 2             | U | 1.9           | UJ |
| trans-Chlordane <sup>1</sup> | 1,700                                      | 2.6           | J | 1.2           | J | 3.4           | R | 0.41          | J | 0.66          | R | 2             | U | 1.9           | UJ |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

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R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

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UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SB-33 |        | NL-2020-SS-33-01 |        | NL-2020-SB-33-01 |        | NL-2020-SS-34 |        | NL-2020-SB-34 |        | NL-2020-SS-35 |        | NL-2020-SB-35 |  |
|------------------------------|-----------------------------------|---------------|--------|------------------|--------|------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--|
| CLP Sample Number:           |                                   | MCOAN3        |        | MCOAS9           |        | MCOAS8           |        | MCOAK9        |        | MCOAN4        |        | MCOAL0        |        | MCOAN5        |  |
| Units:                       |                                   | µg/kg         |        | µg/kg            |        | µg/kg            |        | µg/kg         |        | µg/kg         |        | µg/kg         |        | µg/kg         |  |
| Sample Date:                 |                                   | 9/30/2020     |        | 9/30/2020        |        | 9/30/2020        |        | 9/29/2020     |        | 9/29/2020     |        | 9/30/2020     |        | 9/30/2020     |  |
| Sample Depth (feet):         |                                   | 9-10          |        | 0-1              |        | 9-10             |        | 0-1           |        | 6-7           |        | 0-1           |        | 10-11         |  |
| Sample Location:             |                                   | Old Dump      |        | Old Dump         |        | Old Dump         |        | Old Dump      |        | Old Dump      |        | Old Dump      |        | Old Dump      |  |
| PCB                          | Result                            | Q             | Result | Q                | Result | Q                | Result | Q             | Result | Q             | Result | Q             | Result | Q             |  |
| Aroclor-1248                 | 230                               | 44 U          | 37 U   | 38 U             | 37 U   | 39 U             | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          |  |
| Aroclor-1254                 | 120                               | 44 U          | 37 U   | 38 U             | 37 U   | 39 U             | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          |  |
| Aroclor-1260                 | 240                               | 44 U          | 37 U   | 38 U             | 37 U   | 39 U             | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          |  |
| Aroclor-1268                 | NL                                | 44 U          | 37 U   | 38 U             | 37 U   | 39 U             | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          | 39 U   | 39 U          |  |
| Pesticides                   |                                   |               |        |                  |        |                  |        |               |        |               |        |               |        |               |  |
| 4,4-DDD                      | 190                               | 4.4 U         | 4.1 J  | 3.8 U            | 3.7 U  | 3.9 U            | 3.6 J  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         |  |
| 4,4-DDE                      | 2000                              | 4.4 U         | 1.5 J  | 3.8 U            | 0.26 J | 3.9 U            | 2.8 J  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         |  |
| 4,4-DDT                      | 1900                              | 4.4 U         | 3.1 J  | 3.8 U            | 3.7 U  | 3.9 U            | 48     | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         |  |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 2.2 U         | 0.7 R  | 1.9 U            | 1.9 U  | 2 U              | 5.1    | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           |  |
| Dieldrin                     | 34                                | 4.4 U         | 3.7 U  | 3.8 U            | 3.7 U  | 3.9 U            | 0.78 R | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         |  |
| Endrin                       | 1900                              | 4.4 U         | 3.7 U  | 3.8 U            | 3.7 U  | 3.9 U            | 0.58 J | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         | 3.9 U  | 3.9 U         |  |
| gamma-BHC (Lindane)          | 570                               | 2.2 U         | 20 J   | 1.9 U            | 1.9 U  | 2 U              | 1.2 J  | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           |  |
| Heptachlor epoxide           | 70                                | 2.2 U         | 1.9 U  | 1.9 U            | 1.9 U  | 2 U              | 0.53 J | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           |  |
| trans-Chlordane <sup>1</sup> | 1,700                             | 2.2 U         | 1.9 U  | 1.9 U            | 1.9 U  | 2 U              | 3.5 J  | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           | 2 U    | 2 U           |  |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

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µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk



Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SS-36B |   | NL-2020-SB-36B |   | NL-2020-SS-37A |       | NL-2020-SB-37A |       | NL-2020-SS-38A |        | NL-2020-SB-38A |       | NL-2020-SS-39C |        |
|------------------------------|-----------------------------------|----------------|---|----------------|---|----------------|-------|----------------|-------|----------------|--------|----------------|-------|----------------|--------|
| CLP Sample Number:           |                                   | MCOAL1         |   | MCOAN6         |   | MCOAL2         |       | MCOAN7         |       | MCOAL3         |        | MCOAN8         |       | MCOAL4         |        |
| Units:                       |                                   | µg/kg          |   | µg/kg          |   | µg/kg          |       | µg/kg          |       | µg/kg          |        | µg/kg          |       | µg/kg          |        |
| Sample Date:                 |                                   | 9/30/2020      |   | 9/30/2020      |   | 9/28/2020      |       | 9/28/2020      |       | 9/29/2020      |        | 9/29/2020      |       | 9/29/2020      |        |
| Sample Depth (feet):         |                                   | 0-1            |   | 5-6            |   | 0-1            |       | 7-Jun          |       | 0-1            |        | 5-6            |       | 0-1            |        |
| Sample Location:             |                                   | Old Dump/Road  |   | Old Dump/Road  |   | Landfill/Road  |       | Landfill/Road  |       | Landfill/Road  |        | Landfill/Road  |       | Landfill       |        |
| PCB                          |                                   | Result         | Q | Result         | Q | Result         | Q     | Result         | Q     | Result         | Q      | Result         | Q     | Result         | Q      |
| Aroclor-1248                 | 230                               | 40 U           |   | 38 J           |   |                | 41 U  |                | 39 U  |                | 40 U   |                | 36 U  |                | 38 U   |
| Aroclor-1254                 | 120                               | 40 U           |   | 40 U           |   |                | 41 U  |                | 39 U  |                | 40 U   |                | 36 U  |                | 38 U   |
| Aroclor-1260                 | 240                               | 96 J           |   | 11 R           |   |                | 41 U  |                | 39 U  |                | 40 U   |                | 36 U  |                | 81 J   |
| Aroclor-1268                 | NL                                | 40 U           |   | 40 U           |   |                | 41 U  |                | 39 U  |                | 40 U   |                | 36 U  |                | 38 U   |
| Pesticides                   |                                   |                |   |                |   |                |       |                |       |                |        |                |       |                |        |
| 4,4-DDD                      | 190                               | 7.9 J          |   | 4.9            |   |                | 4.1 U |                | 3.8 U |                | 0.79 J |                | 3.6 U |                | 39 J   |
| 4,4-DDE                      | 2000                              | 8.5            |   | 2 J            |   |                | 1.1 J |                | 3.8 U |                | 2.6 J  |                | 3.6 U |                | 12 J   |
| 4,4-DDT                      | 1900                              | 4.9 J          |   | 0.71 J         |   |                | 1.2 J |                | 3.8 U |                | 3 J    |                | 3.6 U |                | 5.4 R  |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 6.3 J          |   | 1.2 J          |   |                | 0.8 J |                | 2 U   |                | 1.9 J  |                | 1.8 U |                | 9.4    |
| Dieldrin                     | 34                                | 2 J            |   | 0.55 J         |   |                | 4.1 U |                | 3.8 U |                | 0.47 R |                | 3.6 U |                | 2.7 R  |
| Endrin                       | 1900                              | 0.77 R         |   | 0.56 J         |   |                | 4.1 U |                | 3.8 U |                | 3.9 U  |                | 3.6 U |                | 2.4 R  |
| gamma-BHC (Lindane)          | 570                               | 2 U            |   | 2.1 U          |   |                | 2.1 U |                | 2 U   |                | 2 U    |                | 1.8 U |                | 1.8 J  |
| Heptachlor epoxide           | 70                                | 0.42 R         |   | 2.1 U          |   |                | 2.1 U |                | 2 U   |                | 2 U    |                | 1.8 U |                | 0.79 R |
| trans-Chlordane <sup>1</sup> | 1,700                             | 6.4 J          |   | 1.3 J          |   |                | 1.4 J |                | 2 U   |                | 1.4 J  |                | 1.8 U |                | 10 J   |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

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TR = Target Risk

Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SB-39C |        | NL-2020-SS-39C |        | NL-2020-SB-39A |        | NL-2020-SS-40 |        | NL-2020-SB-40 |        | NL-2020-SS-41 |        | NL-2020-SB-41 |   |
|------------------------------|-----------------------------------|----------------|--------|----------------|--------|----------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|---|
| CLP Sample Number:           |                                   | MCOAN9         |        | MCOAS4         |        | MCOAS3         |        | MCOAL5        |        | MCOAPO        |        | MCOAL6        |        | MCOAP1        |   |
| Units:                       |                                   | µg/kg          |        | µg/kg          |        | µg/kg          |        | µg/kg         |        | µg/kg         |        | µg/kg         |        | µg/kg         |   |
| Sample Date:                 |                                   | 9/29/2020      |        | 9/29/2020      |        | 9/29/2020      |        | 9/28/2020     |        | 9/28/2020     |        | 9/28/2020     |        | 9/28/2020     |   |
| Sample Depth (feet):         |                                   | 13-14          |        | 0-1            |        | 11-12          |        | 0-0.5         |        | 2-2.5         |        | 0-0           |        | 2-3           |   |
| Sample Location:             |                                   | Landfill       |        | Landfill/Road  |        | Landfill/Road  |        | Landfill      |        | Landfill      |        | Landfill      |        | Landfill      |   |
| PCB                          | Result                            | Q              | Result | Q              | Result | Q              | Result | Q             | Result | Q             | Result | Q             | Result | Q             |   |
| Aroclor-1248                 | 230                               | 38             | U      | 36             | U      | 39             | U      | 38            | U      | 38            | U      | 43            | U      | <b>380</b>    | J |
| Aroclor-1254                 | 120                               | 38             | U      | 36             | U      | 39             | U      | 38            | U      | 38            | U      | 43            | U      | 43            | U |
| Aroclor-1260                 | 240                               | 38             | U      | 36             | U      | 39             | U      | 38            | U      | 38            | U      | <b>110</b>    | J      | 240           | R |
| Aroclor-1268                 | NL                                | 38             | U      | 36             | U      | 39             | U      | 38            | U      | 38            | U      | 43            | U      | 43            | U |
| Pesticides                   |                                   |                |        |                |        |                |        |               |        |               |        |               |        |               |   |
| 4,4-DDD                      | 190                               | 3.8            | U      | 3.6            | J      | 3.9            | U      | 3.2           | J      | 3.8           | U      | <b>29</b>     | J      | <b>250</b>    |   |
| 4,4-DDE                      | 2000                              | 3.8            | U      | 2.8            | J      | 3.9            | U      | 2.3           | J      | 3.8           | U      | <b>12</b>     |        | <b>35</b>     | J |
| 4,4-DDT                      | 1900                              | 3.8            | U      | 2.5            | J      | 3.9            | U      | 1.8           | J      | 3.8           | U      | 1.8           | R      | 5.6           | R |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 2              | U      | 1.1            | J      | 2              | U      | 1.8           | J      | 1.9           | U      | <b>50</b>     | J      | <b>20</b>     | J |
| Dieldrin                     | 34                                | 3.8            | U      | 0.9            | J      | 3.9            | U      | 0.71          | J      | 3.8           | U      | <b>6.4</b>    | J      | 4.3           | U |
| Endrin                       | 1900                              | 3.8            | U      | 0.43           | J      | 3.9            | U      | 3.8           | U      | 3.8           | U      | 4.3           | U      | 4.3           | U |
| gamma-BHC (Lindane)          | 570                               | 2              | U      | 1.8            | U      | 2              | U      | 2             | U      | 1.9           | U      | 2.2           | U      | 2.2           | U |
| Heptachlor epoxide           | 70                                | 2              | U      | 1.8            | U      | 2              | U      | 0.23          | J      | 1.9           | U      | 2.2           | U      | 2.2           | U |
| trans-Chlordane <sup>1</sup> | 1,700                             | 2              | U      | 1.3            | R      | 2              | U      | 0.8           | R      | 1.9           | U      | <b>64</b>     |        | <b>28</b>     | J |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

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NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 5  
Norwood Landfill  
Non-Residential Soil Sample  
Pesticide and PCB Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NL-2020-SS-42 |   | NL-2020-SB-42 |   | NL-2020-SB-42-01 |   | NL-2020-SS-43 |   | NL-2020-SB-43 |    | NL-2020-SS-44 |   | NL-2020-SB-44 |   |
|------------------------------|-----------------------------------|---------------|---|---------------|---|------------------|---|---------------|---|---------------|----|---------------|---|---------------|---|
| CLP Sample Number:           |                                   | MCOAL7        |   | MCOAP2        |   | MCOAS2           |   | MCOAL8        |   | MCOAP3        |    | MCOAL9        |   | MCOAP4        |   |
| Units:                       |                                   | µg/kg         |   | µg/kg         |   | µg/kg            |   | µg/kg         |   | µg/kg         |    | µg/kg         |   | µg/kg         |   |
| Sample Date:                 |                                   | 9/28/2020     |   | 9/28/2020     |   | 9/28/2020        |   | 9/29/2020     |   | 9/29/2020     |    | 9/29/2020     |   | 9/29/2020     |   |
| Sample Depth (feet):         |                                   | 0-0.5         |   | 2-3           |   | 2-3              |   | 0-0.5         |   | 2-3           |    | 0-0.5         |   | 2-3           |   |
| Sample Location:             |                                   | Landfill      |   | Landfill      |   | Landfill         |   | Landfill      |   | Landfill      |    | Landfill      |   | Landfill      |   |
| PCB                          |                                   | Result        | Q | Result        | Q | Result           | Q | Result        | Q | Result        | Q  | Result        | Q | Result        | Q |
| Aroclor-1248                 | 230                               | 40            | U | 38            | U | 37               | U | 43            | U | 58            | U  | 41            | U | 46            | U |
| Aroclor-1254                 | 120                               | 40            | U | 38            | U | 37               | U | 43            | U | 58            | U  | 41            | U | 46            | U |
| Aroclor-1260                 | 240                               | 40            | U | 38            | U | 37               | U | 63000         |   | 10000         | J  | 260           | J | 46            | U |
| Aroclor-1268                 | NL                                | 40            | U | 38            | U | 37               | U | 43            | U | 58            | U  | 41            | U | 46            | U |
| Pesticides                   |                                   |               |   |               |   |                  |   |               |   |               |    |               |   |               |   |
| 4,4-DDD                      | 190                               | 3             | J | 31            | J | 3.4              | J | 4.3           | U | 220           | J  | 37            | J | 25            | J |
| 4,4-DDE                      | 2000                              | 5.9           |   | 9.1           | J | 1.2              | J | 4.3           | U | 36            | R  | 20            | J | 6.6           | J |
| 4,4-DDT                      | 1900                              | 12            |   | 21            | J | 2.6              | J | 4.3           | U | 5.8           | UJ | 120           |   | 20            | J |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 0.7           | J | 12            | J | 1.4              | J | 2.2           | U | 140           | J- | 54            | J | 11            | J |
| Dieldrin                     | 34                                | 4             | U | 22            | J | 2.7              | J | 4.3           | U | 77            | J  | 11            | J | 4.7           | J |
| Endrin                       | 1900                              | 4             | U | 1.6           | R | 3.7              | R | 4.3           | U | 82            | J  | 8.1           | J | 4.6           | U |
| gamma-BHC (Lindane)          | 570                               | 2.1           | U | 7.3           | J | 1.9              | J | 2.2           | U | 2.1           | J  | 2.1           | U | 2.3           | U |
| Heptachlor epoxide           | 70                                | 2.1           | U | 1.1           | J | 1.9              | R | 2.2           | U | 3             | UJ | 2.5           | R | 2.3           | U |
| trans-Chlordane <sup>1</sup> | 1,700                             | 0.51          | R | 13            | J | 1.4              | R | 2.2           | U | 120           | J  | 50            | J | 8.8           | J |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 6  
Norwood Landfill  
Non-Residential Soil Sample  
Dioxin/Furan Analytical Results Summary

| Sample ID:           | EPA RSL<br>(ng/kg) | NL-2020-SS-36B |     | NL-2020-SS-39A |    | NL-2020-SS-39A-01 |    |
|----------------------|--------------------|----------------|-----|----------------|----|-------------------|----|
| CLP Sample Number:   |                    | MCOAL1         |     | MCOAL4         |    | PCOAS5            |    |
| Units:               |                    | ng/kg          |     | ng/kg          |    | ng/kg             |    |
| Sample Date:         |                    | 9/30/2020      |     | 9/29/2020      |    | 9/29/2020         |    |
| Sample Depth (feet): |                    | 0-1            |     | 0-1            |    | 0-1               |    |
| Sample Location:     |                    | Old Dump/Road  |     | Landfil/Road   |    | Landfill/Road     |    |
| Dioxins              |                    | Results        | Q   | Results        | Q  | Results           | Q  |
| 1,2,3,4,6,7,8-HpCDD  |                    | NL             | 230 |                | 91 |                   | 81 |
| 1,2,3,4,6,7,8-HpCDF  | NL                 | 30             |     | 10             |    | 10                |    |
| 1,2,3,4,7,8,9-HpCDF  | NL                 | 1.4            | J   | 0.78           | Z  | 0.74              | Z  |
| 1,2,3,4,7,8-HxCDD    | NL                 | 1.3            | J   | 0.95           | J  | 0.97              | J  |
| 1,2,3,4,7,8-HxCDF    | NL                 | 1.8            | J   | 1.3            | J  | 1.2               | J  |
| 1,2,3,6,7,8-HxCDD    | NL                 | 3.9            | J   | 2.2            | J  | 1.9               | J  |
| 1,2,3,6,7,8-HxCDF    | NL                 | 1.1            | J   | 1              | J  | 1.2               | Z  |
| 1,2,3,7,8,9-HxCDD    | NL                 | 2.8            | J   | 2.4            | J  | 2                 | J  |
| 1,2,3,7,8,9-HxCDF    | NL                 | 0.97           | Z   | 0.38           | Z  | 0.49              | J  |
| 1,2,3,7,8-PeCDD      | NL                 | 1.4            | J   | 1.1            | J  | 0.91              | J  |
| 1,2,3,7,8-PeCDF      | NL                 | 1              | Z   | 0.84           | J  | 0.81              | J  |
| 2,3,4,6,7,8-HxCDF    | NL                 | 1.7            | Z   | 1.7            | Z  | 2.2               | J  |
| 2,3,4,7,8-PeCDF      | NL                 | 2.1            | J   | 1.6            | Z  | 1.4               | Z  |
| 2,3,7,8-TCDD         | NL                 | 0.59           | Z   | 0.35           | Z  | 0.23              | Z  |
| 2,3,7,8-TCDF         | NL                 | 3              |     | 1.7            |    | 2.5               |    |
| OCDD                 | NL                 | 12000          | J   | 8400           | J  | 6900              | J  |
| OCDF                 | NL                 | 64             |     | 21             |    | 21                |    |
| TEQ (Bird)           | NL                 | 8.9            |     | 4.5            |    | 5                 |    |
| TEQ (Fish)           | NL                 | 5.4            |     | 3              |    | 2.9               |    |
| TEQ (Mammal)         | 4.8 <sup>1</sup>   | <b>9.7</b>     |     | <b>5.6</b>     |    | <b>5</b>          |    |
| Total HpCDD          | NL                 | 430            | J   | 210            | J  | 190               | J  |
| Total HpCDF          | NL                 | 92             | J   | 24             | J  | 22                | J  |
| Total HxCDD          | NL                 | 41             | J   | 35             | J  | 30                | J  |
| Total HxCDF          | NL                 | 27             | J   | 19             | J  | 24                | J  |
| Total PeCDD          | NL                 | 5.2            | J   | 6.8            | J  | 5.3               | J  |
| Total PeCDF          | NL                 | 11             | J   | 30             | J  | 38                | J  |
| Total TCDD           | NL                 | 1.9            | J   | 5              | J  | 3.6               | J  |
| Total TCDF           | NL                 | 21             | J   | 23             | J  | 26                | J  |

Notes:

<sup>1</sup> The RSL value is for 2,3,7,8-TCDD

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

J = Reported value is estimated; actual value may be higher or lower

Q = Qualifier

Z = The isomer was identified with an ion ratio outside the 15% theoretical ion abundance ratio; the associated numerical value is reported as the Estimated Maximum Possible Concentration (EMPC) and is considered estimated

ng/kg =nanograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

QC = Quality control

TR = Target Risk

Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SS-21 | NL-2020-SB-21 | NL-2020-SS-22   | NL-2020-SB-22   | NL-2020-SS-23 | NL-2020-SB-23 | NL-2020-SS-24 |
|-----------------------|-----------------------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|---------------|
| CLP Sample Number:    |                                   | MCOAJ6        | MCOAM1        | MCOAJ7          | MCOAM2          | MCOAJ8        | MCOAM3        | MCOAJ9        |
| Units:                |                                   | mg/kg         | mg/kg         | mg/kg           | mg/kg           | mg/kg         | mg/kg         | mg/kg         |
| Sample Date:          |                                   | 9/28/2020     | 9/28/2020     | 9/28/2020       | 9/28/2020       | 9/30/2020     | 9/30/2020     | 9/29/2020     |
| Sample Depth (feet):  |                                   | 0-0.08        | 15-16         | 0-1             | 12-13           | 0-1           | 16-17         | 0-1           |
| Sample Location:      |                                   | BACKGROUND    | BACKGROUND    | Background/Park | Background/Park | Park          | Park          | Park          |
| Metals                |                                   | Result        | Q             | Result          | Q               | Result        | Q             | Result        |
| Aluminum              | 7700                              | <b>13200</b>  | <b>14700</b>  | <b>12200</b>    | <b>32500</b>    | <b>13400</b>  | <b>20600</b>  | <b>11100</b>  |
| Antimony              | 3.1                               | 1.1 U         | 1.1 UJ        | 1 U             | 1 U             | 1.2 U         | 0.91 U        | 1.2 U         |
| Arsenic               | 0.68                              | <b>7.9</b>    | 0.57          | <b>3.4</b>      | <b>0.98</b>     | <b>3</b>      | <b>1.6</b>    | <b>2.6</b>    |
| Barium                | 1500                              | 43.1          | 42.5 J        | 29              | 65.1            | 25.9          | 132           | 46.5          |
| Beryllium             | 16                                | 0.3 J         | 0.38 J        | 0.26 J          | 0.41 J          | 0.57 J        | 0.7           | 0.66          |
| Cadmium               | 7.1                               | 0.15 J        | 0.15 J        | 0.11 J          | 0.11 J          | 0.6 U         | 0.45 U        | 0.085 J       |
| Calcium               | NL                                | 821           | 131 J         | 229 J           | 199 J           | 474 J         | 395 J         | 433 J         |
| Chromium <sup>1</sup> | 12,000                            | 15.4          | 11.5 J        | 15.3            | 26.9            | 18.2          | 24            | 16.1          |
| Cobalt                | 2.3                               | <b>2.3</b> J  | <b>4.4</b> J  | <b>3.2</b> J    | <b>2.9</b> J    | <b>5.9</b>    | <b>8.1</b>    | <b>4.5</b>    |
| Copper                | 310                               | 9.9           | 12.8          | 7.6             | 20.2            | 11.2          | 17.4          | 9.4           |
| Iron                  | 5500                              | <b>23800</b>  | <b>34800</b>  | <b>22300</b>    | <b>43300</b>    | <b>25400</b>  | <b>44300</b>  | <b>25000</b>  |
| Lead                  | 400                               | 24.5          | 9.2           | 13.3            | 5.5             | 10.2          | 4.8           | 19.7          |
| Magnesium             | NL                                | 1800          | 5600          | 1940            | 9170            | 1690          | 10200         | 1420          |
| Manganese             | 180                               | 80.3          | 46.9          | 103             | 116             | 136           | 121           | <b>295</b> J  |
| Mercury               | 1.1                               | 0.11 UJ       | 0.12 UJ       | 0.11 UJ         | 0.11 UJ         | 0.12 U        | 0.095 U       | <b>0.11</b>   |
| Nickel                | 150                               | 4.3 J         | 5.4 J         | 3.9 J           | 3.4 J           | 9.7           | 11.1          | 6.5           |
| Potassium             | NL                                | 604           | 8170          | 585             | 10800           | 476 J         | 13100         | 407 J         |
| Selenium              | 39                                | 2.8 U         | 2.6 U         | 2.5 U           | 2.6 U           | 3 U           | 2.3 U         | 2.9 U         |
| Silver                | 39                                | 0.57 U        | 0.53 U        | 0.5 U           | 0.52 U          | 0.6 U         | 0.45 U        | 0.58 U        |
| Sodium                | NL                                | 581 U         | 163 J         | 522 U           | 377 J           | 609 U         | 435 J         | 575 U         |
| Thallium              | 0.078                             | 0.57 U        | 0.53 U        | 0.5 U           | 0.52 U          | 0.6 U         | <b>0.57</b>   | 0.58 U        |
| Vanadium              | 39                                | 16.6 J        | 10.7 J        | 14.3 J          | 18.8 J          | <b>41.1</b> J | <b>40.7</b>   | 31.6 J        |
| Zinc                  | 2300                              | 31.1          | 53.1          | 20.9            | 49.9            | 28.5          | 59.4          | 22.5          |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SB-24 | NL-2020-SS-25 | NL-2020-SB-25 | NL-2020-SS-28 | NL-2020-SB-28 | NL-2020-SS-29 | NL-2020-SB-29 |
|-----------------------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CLP Sample Number:    |                                   | MCOAM4        | MCOAK0        | MCOAM5        | MCOAK3        | MCOAM8        | MCOAK4        | MCOAM9        |
| Units:                |                                   | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         |
| Sample Date:          |                                   | 9/29/2020     | 9/28/2020     | 9/28/2020     | 9/30/2020     | 9/30/2020     | 10/1/2020     | 10/1/2020     |
| Sample Depth (feet):  |                                   | 6-7           | 1-2           | 5-6           | 0-1           | 15-16         | 0-1           | 8-9           |
| Sample Location:      |                                   | Park          | ROW           | ROW           | Old Dump      | Old Dump      | Old Dump      | Old Dump      |
| Metals                |                                   | Result        | Q             | Result        | Q             | Result        | Q             | Result        |
| Aluminum              | 7700                              | 7650          | 6680          | <b>18100</b>  | <b>15600</b>  | <b>23000</b>  | <b>15700</b>  | <b>21600</b>  |
| Antimony              | 3.1                               | 0.88 U        | 1 U           | 0.96 U        | 1.1 U         | 0.93 U        | 1.2 U         | 1.1 U         |
| Arsenic               | 0.68                              | <b>0.94</b>   | 0.5 U         | <b>3</b>      | <b>4</b>      | <b>0.68</b>   | <b>4.2</b>    | <b>3.2</b>    |
| Barium                | 1500                              | 29.8          | 15            | 54.5          | 67.9          | 110           | <b>160</b>    | 82.2          |
| Beryllium             | 16                                | 0.36 J        | 0.089 J       | 0.27 J        | 0.73          | 0.3 J         | 0.62          | 0.74          |
| Cadmium               | 7.1                               | 0.081 J       | 0.11 J        | 0.08 J        | 0.53 U        | 0.46 U        | <b>1.8</b>    | 0.53 U        |
| Calcium               | NL                                | <b>713</b>    | 347 J         | 233 J         | <b>3740</b>   | 337 J         | <b>3590</b>   | <b>599</b>    |
| Chromium <sup>1</sup> | 12,000                            | 13.5          | 4             | 16.9          | 31.1          | <b>35.4</b>   | <b>213</b>    | 12.8 J        |
| Cobalt                | 2.3                               | <b>3.1</b>    | 1.7 J         | <b>5.8</b> J  | <b>8.8</b>    | <b>6.5</b>    | <b>7.5</b>    | <b>8.1</b>    |
| Copper                | 310                               | 7.8           | 3.5           | 18.9          | 27.5          | 14.7          | <b>119</b>    | 29            |
| Iron                  | 5500                              | <b>13900</b>  | <b>8780</b>   | <b>28400</b>  | <b>26200</b>  | <b>42400</b>  | <b>31100</b>  | <b>36200</b>  |
| Lead                  | 400                               | 5.1           | 3.9           | 4.3           | 65            | 4.7           | <b>103</b> J  | 9.3           |
| Magnesium             | NL                                | 2800          | 1720          | 6890          | 1600          | 11800         | <b>5570</b>   | 7330          |
| Manganese             | 180                               | 40.8          | 39.7          | 130           | <b>276</b>    | 141           | 154           | 106           |
| Mercury               | 1.1                               | 0.11 U        | 0.11 UJ       | 0.11 UJ       | <b>0.11</b>   | 0.1 U         | <b>0.87</b>   | 0.11 U        |
| Nickel                | 150                               | 8.4           | 4 J           | 9.6 J         | <b>13.3</b>   | 10.7          | <b>73.7</b>   | <b>15.4</b>   |
| Potassium             | NL                                | 692           | 420 J         | 8890          | 950           | 14300         | <b>6370</b>   | 8440          |
| Selenium              | 39                                | 2.2 U         | 2.5 U         | 2.4 U         | 2.7 U         | 2.3 U         | 2.9 U         | 2.7 U         |
| Silver                | 39                                | 0.44 U        | 0.5 U         | 0.48 U        | 0.53 U        | 0.46 U        | <b>11.5</b> J | 0.53 U        |
| Sodium                | NL                                | 162 J         | 108 J         | 286 J         | 180 J         | 492 J         | 196 J         | 269 J         |
| Thallium              | 0.078                             | 0.44 U        | 0.5 U         | 0.48 U        | 0.17 J        | <b>0.59</b>   | 0.27 J        | 0.42 J        |
| Vanadium              | 39                                | 11.5          | 2.7 J         | 13.4 J        | <b>40.4</b>   | <b>55.8</b>   | <b>40.6</b> J | <b>41.3</b>   |
| Zinc                  | 2300                              | 27.4          | 15.8          | 43.1          | <b>82.7</b>   | 76.5          | <b>330</b>    | 63.1          |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SS-30 | NL-2020-SB-30 | NL-2020-SS-31 | NL-2020-SB-31 | NL-2020-SS-32 | NL-2020-SB-32 | NL-2020-SS-33 |
|-----------------------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CLP Sample Number:    |                                   | MCOAK5        | MCOAN0        | MCOAK6        | MCOAN1        | MCOAK7        | MCOAN2        | MCOAK8        |
| Units:                |                                   | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         |
| Sample Date:          |                                   | 10/1/2020     | 10/1/2020     | 9/28/2020     | 9/28/2020     | 10/1/2020     | 10/1/2020     | 9/30/2020     |
| Sample Depth (feet):  |                                   | 0-1           | 19-20         | 0-1           | 14-15         | 0-1           | 7-8           | 0-1           |
| Sample Location:      |                                   | Old Dump      | Old Dump      | Old Dump      | Old Dump      | Old Dump      | Old Dump      | Old Dump      |
| Metals                |                                   | Result        | Q             | Result        | Q             | Result        | Q             | Result        |
| Aluminum              | 7700                              | <b>20900</b>  | <b>26500</b>  | <b>15200</b>  | <b>16100</b>  | <b>15200</b>  | <b>17000</b>  | <b>14400</b>  |
| Antimony              | 3.1                               | 1.2 U         | 1.1 U         | 1.1 U         | 0.95 U        | 2.1           | 1 U           | 1 U           |
| Arsenic               | 0.68                              | 2.9           | 2.7           | 3.2           | 2.7           | 2.7           | 2.4           | 2.9           |
| Barium                | 1500                              | 143           | 95.7          | 152           | 133           | 99.9          | 83.5          | 55.1          |
| Beryllium             | 16                                | 0.63          | 0.73          | 0.28 J        | 0.24 J        | 0.55          | 0.92          | 0.57          |
| Cadmium               | 7.1                               | 1.2           | 0.079 J       | 2.3           | 0.37 J        | 0.47 J        | 0.24 J        | 0.52 U        |
| Calcium               | NL                                | 3010          | 1090          | 9250          | 2490          | 1110          | 1200          | 1380          |
| Chromium <sup>1</sup> | 12,000                            | 88.7          | 17 J          | 389           | 21.7          | 62.3          | 13.6          | 15.6          |
| Cobalt                | 2.3                               | 8.9           | 9.5           | 5.1 J         | 3.7 J         | 7.3           | 8.9           | 8.4           |
| Copper                | 310                               | 102           | 26.8          | 157           | 36.4          | 51.8          | 35.1          | 13.9          |
| Iron                  | 5500                              | 37900         | 43900         | 24200         | 29900         | 27700         | 28000         | 24300         |
| Lead                  | 400                               | 54            | 8.5           | 55.8 J        | 162           | 354           | 36.7          | 31.3          |
| Magnesium             | NL                                | 7770          | 11200         | 6040          | 4430          | 5940          | 5530          | 3600          |
| Manganese             | 180                               | 203           | 172           | 146           | 161           | 133           | 198           | 219           |
| Mercury               | 1.1                               | 0.48          | 0.14          | 1.1           | 0.11 UJ       | 0.17          | 0.12 U        | 0.1 U         |
| Nickel                | 150                               | 42.8          | 17.3          | 112 J         | 5.5 J         | 30.1          | 16            | 10.1          |
| Potassium             | NL                                | 10100         | 13700         | 5060          | 4430          | 7560          | 7640          | 2770          |
| Selenium              | 39                                | 2.9 U         | 2.8 U         | 2.6 U         | 2.4 U         | 2.6 U         | 2.6 U         | 2.6 U         |
| Silver                | 39                                | 6.8           | 0.22 J        | 27.7          | 0.39 J        | 3.1           | 0.06 J        | 0.52 U        |
| Sodium                | NL                                | 291 J         | 461 J         | 180 J         | 154 J         | 229 J         | 195 J         | 91.2 J        |
| Thallium              | 0.078                             | 0.52 J        | 0.55 J        | 0.53 UJ       | 0.47 U        | 0.34 J        | 0.46 J        | 0.14 J        |
| Vanadium              | 39                                | 43.8          | 48.5          | 16.5 J        | 15.9 J        | 35.8          | 34.2          | 30.5          |
| Zinc                  | 2300                              | 285           | 64.1          | 478           | 115           | 124           | 78.4          | 43.2          |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SB-33 |              | NL-2020-SS-33-01 |              | NL-2020-SB-33-01 |              | NL-2020-SS-34 |              | NL-2020-SB-34 |              | NL-2020-SS-35 |              | NL-2020-SB-35 |              |
|-----------------------|-----------------------------------|---------------|--------------|------------------|--------------|------------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| CLP Sample Number:    |                                   | MCOAN3        |              | MCOAS9           |              | MCOAS8           |              | MCOAK9        |              | MCOAN4        |              | MCOALO        |              | MCOAN5        |              |
| Units:                |                                   | mg/kg         |              | mg/kg            |              | mg/kg            |              | mg/kg         |              | mg/kg         |              | mg/kg         |              | mg/kg         |              |
| Sample Date:          |                                   | 9/30/2020     |              | 9/30/2020        |              | 9/30/2020        |              | 9/29/2020     |              | 9/29/2020     |              | 9/30/2020     |              | 9/30/2020     |              |
| Sample Depth (feet):  |                                   | 9-10          |              | 0-1              |              | 9-10             |              | 0-1           |              | 6-7           |              | 0-1           |              | 10-11         |              |
| Sample Location:      |                                   | Old Dump      |              | Old Dump         |              | Old Dump         |              | Old Dump      |              | Old Dump      |              | Old Dump      |              | Old Dump      |              |
| Metals                |                                   | Result        | Q            | Result           | Q            | Result           | Q            | Result        | Q            | Result        | Q            | Result        | Q            | Result        | Q            |
| Aluminum              | 7700                              |               | <b>10400</b> |                  | <b>15700</b> |                  | <b>9220</b>  |               | <b>11200</b> |               | <b>11800</b> |               | <b>12400</b> |               | <b>22500</b> |
| Antimony              | 3.1                               |               | 1.1 U        |                  | 1 U          |                  | 1 U          |               | 1.1 U        |               | 1.1 U        |               | 1.2          |               | 0.95 U       |
| Arsenic               | 0.68                              |               | 0.63         |                  | <b>3.3</b>   |                  | 0.53         |               | <b>1.8</b>   |               | <b>2</b>     |               | <b>3.9</b>   |               | 0.58         |
| Barium                | 1500                              |               | 75.1         |                  | 65.4         |                  | 47.5         |               | 30.2         |               | 37.6         |               | <b>166</b>   |               | 80.4         |
| Beryllium             | 16                                |               | 0.42 J       |                  | 0.63         |                  | 0.31 J       |               | 0.47 J       |               | 0.46 J       |               | 0.56         |               | 0.53         |
| Cadmium               | 7.1                               |               | 0.54 U       |                  | 0.51 U       |                  | 0.52 U       |               | 0.07 J       |               | 0.53 U       |               | <b>1.1</b>   |               | 0.48 U       |
| Calcium               | NL                                |               | <b>554</b>   |                  | <b>1430</b>  |                  | <b>441</b> J |               | 289 J        |               | <b>563</b>   |               | <b>1790</b>  |               | <b>812</b>   |
| Chromium <sup>1</sup> | 12,000                            |               | 17.3         |                  | 17.3         |                  | 9.9          |               | 12.1         |               | 11.4         |               | <b>80.5</b>  |               | 29.6         |
| Cobalt                | 2.3                               |               | <b>3.5</b>   |                  | <b>8.6</b>   |                  | <b>2.4</b>   |               | 4.1          |               | <b>4.5</b>   |               | <b>8</b>     |               | <b>8.7</b>   |
| Copper                | 310                               |               | 6.2          |                  | 15.1         |                  | 4.3          |               | 7.6          |               | 6.7          |               | <b>110</b>   |               | 14.6         |
| Iron                  | 5500                              |               | <b>10900</b> |                  | <b>26900</b> |                  | <b>14100</b> |               | <b>22200</b> |               | <b>15700</b> |               | <b>30800</b> |               | <b>40900</b> |
| Lead                  | 400                               |               | 7.6          |                  | 30.8         |                  | 7.1          |               | 24.4         |               | 9.2          |               | <b>384</b>   |               | 8.1          |
| Magnesium             | NL                                |               | 1970         |                  | 4100         |                  | 1890         |               | 1520         |               | 2570         |               | 4170         |               | 10600        |
| Manganese             | 180                               |               | 46.2         |                  | <b>218</b>   |                  | 27.6         |               | <b>272</b>   |               | 33.8         |               | 206          |               | 91           |
| Mercury               | 1.1                               |               | 0.11 U       |                  | 0.11 U       |                  | 0.11 U       |               | <b>0.11</b>  |               | 0.11 U       |               | <b>0.4</b>   |               | 0.099 U      |
| Nickel                | 150                               |               | 9.9          |                  | 11.5         |                  | 6.5          |               | 5.2          |               | 7.6          |               | <b>30.2</b>  |               | <b>16.8</b>  |
| Potassium             | NL                                |               | 313 J        |                  | <b>3210</b>  |                  | 341 J        |               | 397 J        |               | 564          |               | <b>4440</b>  |               | 14100        |
| Selenium              | 39                                |               | 2.7 U        |                  | 2.5 U        |                  | 2.6 U        |               | 2.7 U        |               | 2.6 U        |               | 2.7 U        |               | 2.4 U        |
| Silver                | 39                                |               | 0.54 U       |                  | 0.51 U       |                  | 0.52 U       |               | 0.54 U       |               | 0.53 U       |               | <b>5.1</b>   |               | 0.48 U       |
| Sodium                | NL                                |               | 140 J        |                  | 102 J        |                  | 135 J        |               | 540 U        |               | 387 J        |               | 149 J        |               | 449 J        |
| Thallium              | 0.078                             |               | 0.54 U       |                  | 0.14 J       |                  | 0.52 U       |               | 0.54 U       |               | 0.53 U       |               | 0.3 J        |               | <b>0.61</b>  |
| Vanadium              | 39                                |               | 11.5         |                  | 32.8         |                  | 9.3          |               | 20.5         |               | 26.6         |               | <b>39.8</b>  |               | <b>44.6</b>  |
| Zinc                  | 2300                              |               | 25.7         |                  | 45.2         |                  | 18.5         |               | 20.4         |               | 18.7         |               | <b>328</b>   |               | 76           |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk



Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SS-36B | NL-2020-SB-36B | NL-2020-SS-37A | NL-2020-SB-37A | NL-2020-SS-38A | NL-2020-SB-38A | NL-2020-SS-39C |   |              |  |              |  |               |  |
|-----------------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|--------------|--|--------------|--|---------------|--|
| CLP Sample Number:    |                                   | MCOAL1         | MCOAN6         | MCOAL2         | MCOAN7         | MCOAL3         | MCOAN8         | MCOAL4         |   |              |  |              |  |               |  |
| Units:                |                                   | mg/kg          | mg/kg          | mg/kg          | mg/kg          | mg/kg          | mg/kg          | mg/kg          |   |              |  |              |  |               |  |
| Sample Date:          |                                   | 9/30/2020      | 9/30/2020      | 9/28/2020      | 9/28/2020      | 9/29/2020      | 9/29/2020      | 9/29/2020      |   |              |  |              |  |               |  |
| Sample Depth (feet):  |                                   | 0-1            | 5-6            | 0-1            | 6-7            | 0-1            | 5-6            | 0-0            |   |              |  |              |  |               |  |
| Sample Location:      |                                   | Old Dump/Road  | Old Dump/Road  | Landfill/Road  | Landfill/Road  | Landfill/Road  | Landfill/Road  | Landfill       |   |              |  |              |  |               |  |
| Metals                |                                   | Result         | Q              | Result         | Q              | Result         | Q              | Result         | Q |              |  |              |  |               |  |
| Aluminum              | 7700                              | <b>11300</b>   |                | <b>17300</b>   |                | <b>16200</b>   |                | <b>13900</b>   |   | <b>12100</b> |  | <b>19500</b> |  | <b>10300</b>  |  |
| Antimony              | 3.1                               | 1.1 U          |                | 1.1 U          |                | 1 U            |                | 0.96 U         |   | 1.1 U        |  | 0.96 U       |  | 1.3 U         |  |
| Arsenic               | 0.68                              | <b>2.1</b>     |                | <b>3.6</b>     |                | <b>3</b>       |                | 0.58           |   | <b>2.6</b>   |  | <b>3.1</b>   |  | <b>2.3</b>    |  |
| Barium                | 1500                              | 84.6           |                | 88.8           |                | 37.3           |                | 72             |   | 57.5         |  | 85.5         |  | 67.8          |  |
| Beryllium             | 16                                | 0.47 J         |                | 0.59           |                | 0.26 J         |                | 0.36 J         |   | 0.53         |  | 0.49         |  | 0.5 J         |  |
| Cadmium               | 7.1                               | 0.56 U         |                | 0.56 U         |                | 0.13 J         |                | 0.099 J        |   | 0.25 J       |  | 0.48 U       |  | <b>0.52</b> J |  |
| Calcium               | NL                                | <b>3290</b>    |                | <b>1820</b>    |                | <b>1220</b>    |                | 159 J          |   | <b>2710</b>  |  | <b>406</b> J |  | <b>4370</b>   |  |
| Chromium <sup>1</sup> | 12,000                            | 25.5           |                | <b>37.4</b>    |                | 17.5           |                | 10.5           |   | 13.7         |  | 20.5         |  | 14.3          |  |
| Cobalt                | 2.3                               | <b>9.1</b>     |                | <b>10.1</b>    |                | <b>4.1</b> J   |                | <b>4.8</b> J   |   | <b>8.1</b>   |  | <b>8.7</b>   |  | <b>4.9</b>    |  |
| Copper                | 310                               | <b>51.2</b>    |                | 17.2           |                | 11.7           |                | 10.8           |   | 16.2         |  | 31.3         |  | 25.9          |  |
| Iron                  | 5500                              | <b>37400</b>   |                | <b>31100</b>   |                | <b>28000</b>   |                | <b>33500</b>   |   | <b>23300</b> |  | <b>31100</b> |  | <b>20700</b>  |  |
| Lead                  | 400                               | <b>73.1</b>    |                | <b>59.7</b>    |                | 18.2           |                | 5.4            |   | <b>50.2</b>  |  | 4.2          |  | <b>155</b>    |  |
| Magnesium             | NL                                | 3150           |                | 4260           |                | 3040           |                | 5060           |   | 3670         |  | 8430         |  | 2360          |  |
| Manganese             | 180                               | <b>508</b>     |                | <b>344</b>     |                | <b>247</b>     |                | <b>800</b>     |   | <b>242</b>   |  | 136          |  | <b>231</b>    |  |
| Mercury               | 1.1                               | <b>0.2</b>     |                | <b>0.27</b>    |                | 0.12 UJ        |                | 0.1 UJ         |   | 0.11 U       |  | 0.1 U        |  | <b>0.26</b>   |  |
| Nickel                | 150                               | <b>19.3</b>    |                | <b>19.1</b>    |                | 4.7 J          |                | 6.8 J          |   | 9.1          |  | 12.8         |  | 10.4          |  |
| Potassium             | NL                                | <b>2110</b>    |                | 2620           |                | 1290           |                | 6040           |   | 1460         |  | 10000        |  | 1630          |  |
| Selenium              | 39                                | 2.8 U          |                | 2.8 U          |                | 2.6 U          |                | 2.4 U          |   | 2.7 U        |  | 2.4 U        |  | 3.2 U         |  |
| Silver                | 39                                | 0.15 J         |                | 0.18 J         |                | 0.51 U         |                | 0.48 U         |   | 0.09 J       |  | 0.48 U       |  | 0.15 J        |  |
| Sodium                | NL                                | 590 U          |                | 145 J          |                | 592 U          |                | 115 J          |   | 594 U        |  | 258 J        |  | 676 U         |  |
| Thallium              | 0.078                             | 0.12 J         |                | 0.25 J         |                | 0.51 U         |                | 0.48 U         |   | 0.12 J       |  | 0.44 J       |  | 0.64 U        |  |
| Vanadium              | 39                                | 32.1           |                | <b>50.2</b>    |                | 15.8 J         |                | 7.1 J          |   | 29.9         |  | 33.1         |  | 21.7          |  |
| Zinc                  | 2300                              | <b>133</b>     |                | 60.2           |                | 40.8           |                | 46.6           |   | <b>60.4</b>  |  | 57.2         |  | <b>124</b>    |  |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:           | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SB-39C |             | NL-2020-SS-39A |              | NL-2020-SB-39A |              | NL-2020-SS-40 |              | NL-2020-SB-40 |              | NL-2020-SS-41 |              | NL-2020-SB-41 |              |
|----------------------|-----------------------------------|----------------|-------------|----------------|--------------|----------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| CLP Sample Number:   |                                   | MCOAN9         |             | MCOAS4         |              | MCOAS3         |              | MCOAL5        |              | MCOAPO        |              | MCOAL6        |              | MCOAP1        |              |
| Units:               |                                   | mg/kg          |             | mg/kg          |              | mg/kg          |              | mg/kg         |              | mg/kg         |              | mg/kg         |              | mg/kg         |              |
| Sample Date:         |                                   | 9/29/2020      |             | 9/29/2020      |              | 9/29/2020      |              | 9/28/2020     |              | 9/28/2020     |              | 9/28/2020     |              | 9/28/2020     |              |
| Sample Depth (feet): |                                   | 13-14          |             | 0-1            |              | 11-12          |              | 0-0.5         |              | 2-2.5         |              | 0-0           |              | 2-3           |              |
| Sample Location:     |                                   | Landfill       |             | Landfill/Road  |              | Landfill/Road  |              | Landfill      |              | Landfill      |              | Landfill      |              | Landfill      |              |
| Metals               |                                   | Result         | Q           | Result         | Q            | Result         | Q            | Result        | Q            | Result        | Q            | Result        | Q            | Result        | Q            |
| Aluminum             | 7700                              |                | 6630        |                | 7540         |                | 7270         |               | <b>10100</b> |               | 7490         |               | <b>11100</b> |               | <b>11100</b> |
| Antimony             | 3.1                               |                | 0.82 U      |                | 0.84 U       |                | 1 U          |               | 1.1 U        |               | 0.88 U       |               | 1            |               | 2.2          |
| Arsenic              | 0.68                              |                | 1.1         |                | 1.9          |                | 0.44 J       |               | 3.8          |               | 2.7          |               | 2.8          |               | 5.7          |
| Barium               | 1500                              |                | 23.3        |                | 49.1         |                | 22.2         |               | 69.9         |               | 435          |               | 88.3         |               | 255          |
| Beryllium            | 16                                |                | 0.34 J      |                | 0.51         |                | 0.52         |               | 0.34 J       |               | 0.91 J       |               | 0.29 J       |               | 0.25 J       |
| Cadmium              | 7.1                               |                | 0.058 J     |                | 0.18 J       |                | 0.51 U       |               | 0.45 J       |               | 0.21 J       |               | 0.78         |               | 2.3          |
| Calcium              | NL                                |                | 267 J       |                | <b>22800</b> |                | 325 J        |               | <b>2920</b>  |               | <b>746</b>   |               | <b>2820</b>  |               | <b>6320</b>  |
| Chromium             | 12,000                            |                | 9           |                | 15.5         |                | 9            |               | 13.6         |               | 10           |               | 16.1         |               | 39           |
| Cobalt               | 2.3                               |                | 4.5         |                | 5.5          |                | 10.5         |               | 3.8 J        |               | 19.3 J       |               | 4 J          |               | 5.4 J        |
| Copper               | 310                               |                | 6.4         |                | 14.6         |                | 5.9          |               | 27.7         |               | 2.2          |               | 43.1         |               | 380          |
| Iron                 | 5500                              |                | <b>9560</b> |                | <b>14400</b> |                | <b>12400</b> |               | <b>20400</b> |               | <b>41400</b> |               | <b>28200</b> |               | <b>49500</b> |
| Lead                 | 400                               |                | 4.5         |                | 37.2         |                | 5.5          |               | 176          |               | 15.8         |               | 250          |               | 671          |
| Magnesium            | NL                                |                | 1770        |                | <b>13000</b> |                | 1610         |               | 3850         |               | 1010         |               | 2650         |               | 3520         |
| Manganese            | 180                               |                | 78.1        |                | 151          |                | 135          |               | 400          |               | 4810         |               | 343          |               | 280          |
| Mercury              | 1.1                               |                | 0.11 U      |                | 0.1 U        |                | 0.12 U       |               | 0.11         |               | 0.11 UJ      |               | 0.12 UJ      |               | 0.79         |
| Nickel               | 150                               |                | 9.1         |                | 9.9          |                | 7            |               | 7.9 J        |               | 13.8 J       |               | 7.6 J        |               | 19.9 J       |
| Potassium            | NL                                |                | 585         |                | <b>2190</b>  |                | 508 J        |               | <b>2790</b>  |               | 326 J        |               | 1270         |               | 2340         |
| Selenium             | 39                                |                | 2.1 U       |                | 2.1 U        |                | 2.5 U        |               | 2.7 U        |               | 2.2 U        |               | 2.3 U        |               | 2.5 U        |
| Silver               | 39                                |                | 0.41 U      |                | 0.42 U       |                | 0.51 U       |               | 0.25 J       |               | 0.44 U       |               | 0.43 J       |               | 1.3          |
| Sodium               | NL                                |                | 560 U       |                | 531 U        |                | 581 U        |               | 583 U        |               | 561 U        |               | 570 U        |               | 140 J        |
| Thallium             | 0.078                             |                | 0.41 U      |                | 0.42 U       |                | 0.51 U       |               | 0.54 U       |               | 0.44 U       |               | 0.45 U       |               | 0.49 U       |
| Vanadium             | 39                                |                | 14.3        |                | 27.5         |                | 12.9         |               | 16.8 J       |               | 18.6 J       |               | 14.8 J       |               | 19.4 J       |
| Zinc                 | 2300                              |                | 32          |                | 56.1         |                | 30.5         |               | 105          |               | 14.9         |               | 171          |               | 665          |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 7  
Norwood Landfill  
Non-Residential Soil Sample  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NL-2020-SS-42 |              | NL-2020-SB-42 |               | NL-2020-SB-42-01 |              | NL-2020-SS-43 |               | NL-2020-SB-43 |               | NL-2020-SS-44 |              | NL-2020-SB-44 |              |
|-----------------------|-----------------------------------|---------------|--------------|---------------|---------------|------------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|
| CLP Sample Number:    |                                   | MCOAL7        |              | MCOAP2        |               | MCOAS2           |              | MCOAL8        |               | MCOAP3        |               | MCOAL9        |              | MCOAP4        |              |
| Units:                |                                   | mg/kg         |              | mg/kg         |               | mg/kg            |              | mg/kg         |               | mg/kg         |               | mg/kg         |              | mg/kg         |              |
| Sample Date:          |                                   | 9/28/2020     |              | 9/28/2020     |               | 9/28/2020        |              | 9/29/2020     |               | 9/29/2020     |               | 9/29/2020     |              | 9/29/2020     |              |
| Sample Depth (feet):  |                                   | 0-0.5         |              | 2-3           |               | 2-3              |              | 0-0.5         |               | 2-3           |               | 0-0.5         |              | 2-3           |              |
| Sample Location:      |                                   | Landfill      |              | Landfill      |               | Landfill         |              | Landfill      |               | Landfill      |               | Landfill      |              | Landfill      |              |
| Metals                |                                   | Result        | Q            | Result        | Q             | Result           | Q            | Result        | Q             | Result        | Q             | Result        | Q            | Result        | Q            |
| Aluminum              | 7700                              |               | 7290         |               | <b>9750</b>   |                  | <b>10300</b> |               | <b>9500</b>   |               | 6950          |               | <b>11600</b> |               | <b>12200</b> |
| Antimony              | 3.1                               |               | 1.7          |               | 0.99 U        |                  | 1.1 U        |               | <b>1.1</b>    |               | <b>2.2</b>    |               | <b>5.9</b>   |               | <b>1.5</b> J |
| Arsenic               | 0.68                              |               | <b>3.2</b>   |               | <b>3.2</b>    |                  | <b>2.8</b>   |               | <b>32.8</b>   |               | <b>3.9</b>    |               | <b>3.5</b>   |               | <b>2.4</b>   |
| Barium                | 1500                              |               | 74.1         |               | <b>186</b>    |                  | <b>209</b>   |               | <b>762</b>    |               | <b>379</b>    |               | <b>523</b>   |               | <b>523</b>   |
| Beryllium             | 16                                |               | 0.34 J       |               | 0.34 J        |                  | 0.41 J       |               | 0.49 J        |               | 0.21 J        |               | 0.52 J       |               | 0.52 J       |
| Cadmium               | 7.1                               |               | <b>0.8</b>   |               | <b>1.3</b>    |                  | <b>0.69</b>  |               | <b>2.1</b>    |               | <b>22.3</b>   |               | <b>3.2</b>   |               | <b>2.8</b>   |
| Calcium               | NL                                |               | <b>2210</b>  |               | <b>5760</b>   |                  | <b>4720</b>  |               | <b>2690</b>   |               | <b>4420</b>   |               | <b>2900</b>  |               | <b>4660</b>  |
| Chromium <sup>1</sup> | 12,000                            |               | 15           |               | 21.7          |                  | 17.2         |               | <b>234</b>    |               | <b>432</b>    |               | 42.4         |               | <b>45.6</b>  |
| Cobalt                | 2.3                               |               | <b>7.1</b>   |               | <b>6.2</b> J  |                  | <b>6.9</b>   |               | <b>6.3</b>    |               | <b>8.1</b>    |               | <b>8.7</b>   |               | <b>6.4</b>   |
| Copper                | 310                               |               | <b>289</b>   |               | <b>343</b>    |                  | <b>131</b>   |               | <b>53.2</b>   |               | <b>150</b>    |               | <b>219</b>   |               | <b>112</b>   |
| Iron                  | 5500                              |               | <b>23400</b> |               | <b>36400</b>  |                  | <b>35300</b> |               | <b>136000</b> |               | <b>123000</b> |               | <b>87200</b> |               | <b>66800</b> |
| Lead                  | 400                               |               | <b>237</b>   |               | <b>455</b>    |                  | <b>385</b>   |               | <b>446</b>    |               | <b>1040</b>   |               | <b>1180</b>  |               | <b>2310</b>  |
| Magnesium             | NL                                |               | 1800         |               | 3800          |                  | 2850         |               | 2160          |               | 1070          |               | 3720         |               | 3860         |
| Manganese             | 180                               |               | <b>325</b>   |               | <b>369</b>    |                  | <b>318</b>   |               | <b>190</b>    |               | <b>688</b>    |               | <b>417</b>   |               | <b>266</b>   |
| Mercury               | 1.1                               |               | <b>0.11</b>  |               | <b>0.28</b>   |                  | <b>0.18</b>  |               | <b>0.9</b>    |               | <b>2.1</b>    |               | 0.11 U       |               | <b>5.5</b>   |
| Nickel                | 150                               |               | <b>14.5</b>  |               | <b>25.1</b> J |                  | <b>32.7</b>  |               | <b>19.8</b>   |               | <b>71.8</b>   |               | <b>29.4</b>  |               | <b>22.9</b>  |
| Potassium             | NL                                |               | 1380         |               | 1560          |                  | 1450         |               | 1330          |               | 430 J         |               | <b>2930</b>  |               | 2250         |
| Selenium              | 39                                |               | 2.5 U        |               | 2.5 U         |                  | 2.8 U        |               | 2.6 U         |               | 0.68 J        |               | 0.43 J       |               | 2.8 U        |
| Silver                | 39                                |               | 0.17 J       |               | 0.27 J        |                  | 0.23 J       |               | 0.47 J        |               | <b>0.86</b>   |               | <b>1.4</b>   |               | <b>1.5</b>   |
| Sodium                | NL                                |               | 589 U        |               | 91 J          |                  | 389 J        |               | 623 U         |               | 598 U         |               | 596 U        |               | 112 J        |
| Thallium              | 0.078                             |               | 0.5 U        |               | 0.5 U         |                  | 0.56 U       |               | 0.11 J        |               | 0.55 U        |               | 0.17 J       |               | 1.1 U        |
| Vanadium              | 39                                |               | 15.6         |               | 14.7 J        |                  | 16           |               | 30.9          |               | 12.7          |               | 33.6         |               | 21.8         |
| Zinc                  | 2300                              |               | <b>628</b>   |               | <b>342</b>    |                  | <b>312</b>   |               | <b>269</b>    |               | <b>1270</b>   |               | <b>618</b>   |               | <b>469</b>   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth (feet):<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-101 | NLR-SS-101 | NLR-CS-102 | NLR-SS-102 | NLR-CS-103 | NLR-DB-103 | NLR-SB-103 | NLR-SS-103 |        |        |       |
|--|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|--------|-------|
|  |                                   | MCOB32     | MCOAW4     | MCOB33     | MCOAW5     | MCOB34     | MCOB34     | MCOB34     | MCOB34     |        |        |       |
|  |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |        |        |       |
|  |                                   | 11/10/2020 | 11/10/2020 | 11/11/2020 | 11/11/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  |        |        |       |
| 0-0.5  | 0-0.5                             | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-6        |            |            |        |        |       |
|  | Field                             | Field      | Field      | Field      | Field      | Field      | Field      | Field      |            |        |        |       |
| VOC  | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q      | Result | Q     |
| 2-Butanone   | 2700000                           |            |            | 11 U       |            |            | 13 U       |            |            | 12 U   |        | 13 U  |
| 2-Hexanone   | 20000                             |            |            | 11 U       |            |            | 13 U       |            |            | 12 U   |        | 13 U  |
| 4-Methyl-2-pentanone   | 3300000                           |            |            | 11 U       |            |            | 13 U       |            |            | 12 U   |        | 13 U  |
| Acetone  | 6100000                           |            |            | 11 U       |            |            | 13 U       |            |            | 33     |        | 5.9 J |
| Chloroform   | 320                               |            |            | 5.5 U      |            |            | 6.3 U      |            |            | 5.9 U  |        | 6.5 U |
| Methyl Acetate   | 7800000                           |            |            | 5.5 U      |            |            | 6.3 U      |            |            | 5.9 U  |        | 6.5 U |
| Methylene chloride   | 35000                             |            |            | 6.4        |            |            | 6.3 U      |            |            | 9.4 U  |        | 11    |
| Tetrachloroethene  | 8100                              |            |            | 5.5 U      |            |            | 6.3 U      |            |            | 5.9 U  |        | 6.5 U |
| Toluene  | 490000                            |            |            | 5.5 U      |            |            | 6.3 U      |            |            | 5.9 U  |        | 6.5 U |
| Vinyl chloride   | 95                                |            |            | 5.5 U      |            |            | 6.3 U      |            |            | 5.9 U  |        | 6.5 U |
| <b>PAH SIM</b>   |                                   |            |            |            |            |            |            |            |            |        |        |       |
| 2-Methylnaphthalene  | 24000                             | 1.8 J      | 0.9 J      | 19         |            | 2.4 J      | 3.2 J      |            | 4.1 U      | 3.9 U  |        | 1.6 J |
| Acenaphthene   | 360000                            | 0.99 J     |            | 4 U        | 110        | 8.3        | 4.4        |            | 4.1 U      | 3.9 U  |        | 2.4 J |
| Acenaphthylene   | NL                                | 2.3 J      | 4 U        | 7.9        |            | 1.7 J      | 1.4 J      |            | 4.1 U      | 3.9 U  |        | 1.8 J |
| Anthracene   | 1800000                           | 4.4        | 2.8 J      | 200        |            | 10         | 20         |            | 4.1 U      | 3.9 U  |        | 9.7   |
| Benzo(a)anthracene   | 1100                              | 49         | 43         | 770 J      |            | 91         | 180        |            | 4.1 U      | 1.1 J  |        | 36    |
| Benzo(a)pyrene   | 110                               | 54         | 54         | 750 J      |            | 120        | 200        |            | 4.1 U      | 0.98 J |        | 33    |
| Benzo(b)fluoranthene   | 1100                              | 72         | 79         | 990 J      |            | 170        | 290        |            | 4.1 U      | 1.5 J  |        | 50    |
| Benzo(g,h,i)perylene   | NL                                | 36         | 35         | 470 J      |            | 81         | 90         |            | 4.1 U      | 3.9 U  |        | 17    |
| Benzo(k)fluoranthene   | 11000                             | 28         | 29         | 360 J      |            | 66         | 100        |            | 4.1 U      | 3.9 U  |        | 15    |
| Chrysene   | 110000                            | 59         | 57         | 860 J      |            | 120        | 190        |            | 4.1 U      | 1.1 J  |        | 37    |
| Dibenzo(a,h)anthracene   | 110                               | 9.5        | 10         | 140        |            | 24         | 32         |            | 4.1 U      | 3.9 U  |        | 5.2   |
| Fluoranthene   | 240000                            | 75         | 77         | 1600 J     |            | 220        | 250        |            | 4.1 U      | 1.8 J  |        | 67    |
| Fluorene   | 240000                            | 1.3 J      | 0.82 J     | 77         |            | 6.6        | 3.3 J      |            | 4.1 U      | 3.9 U  |        | 3.2 J |
| Indeno(1,2,3-cd)pyrene   | 1100                              | 33         | 33         | 450 J      |            | 74         | 94         |            | 4.1 U      | 3.9 U  |        | 17    |
| Naphthalene  | 2000                              | 1.8 J      | 1.1 J      | 19         |            | 5.2        | 10         |            | 4.1 U      | 3.9 U  |        | 2.2 J |
| Pentachlorophenol  | 1000                              | 9 U        | 8.2 U      | 8.7 U      |            | 8.8 U      | 9 U        |            | 8.3 U      | 7.9 U  |        | 9 U   |
| Phenanthrene   | NL                                | 26         | 18         | 1000 J     |            | 100        | 95         |            | 4.1 U      | 1.1 J  |        | 42    |
| Pyrene   | 180000                            | 71         | 57         | 1400 J     |            | 170        | 250        |            | 4.1 U      | 1.5 J  |        | 76    |
| <b>SVOCs</b>   |                                   |            |            |            |            |            |            |            |            |        |        |       |
| 1,1-Biphenyl   | 4700                              | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| 2-Methylnaphthalene  | 24000                             | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Acenaphthene   | 360000                            | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Acenaphthylene   | NL                                | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Acetophenone   | 780000                            | 440 U      | 400 U      | 430 U      | 430 U      | 440 U      | 410 U      | 390 U      | 440 U      | 410 U  | 440 U  | 440 U |
| Anthracene   | 1800000                           | 230 U      | 210 U      | 230 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Benzo(a)anthracene   | 1100                              | 230 U      | 210 U      | 880        | 100 J      | 140 J      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Benzo(a)pyrene   | 110                               | 48 J       | 53 J       | 830        | 120 J      | 150 J      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Benzo(b)fluoranthene   | 1100                              | 74 J       | 75 J       | 1100       | 160 J      | 200 J      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Benzo(g,h,i)perylene   | NL                                | 230 U      | 210 U      | 500        | 87 J       | 87 J       | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Benzo(k)fluoranthene   | 11000                             | 230 U      | 210 U      | 440        | 58 J       | 80 J       | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Bis(2-ethylhexyl)phthalate   | 39000                             | 730        | 66 J       | 140 J      | 1400       | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Butylbenzylphthalate   | 290000                            | 80 J       | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Carbazole  | NL                                | 440 U      | 400 U      | 99 J       | 430 U      | 440 U      | 410 U      | 390 U      | 440 U      | 410 U  | 440 U  | 440 U |
| Chrysene   | 110000                            | 52 J       | 55 J       | 960        | 120 J      | 150 J      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Dibenzo(a,h)anthracene   | 110                               | 230 U      | 210 U      | 150 J      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Dibenzofuran   | 7800                              | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Dimethylphthalate  | NL                                | 340        | 300        | 200 J      | 310        | 140 J      | 310        | 390        | 440 U      | 390    | 440 U  | 440 J |
| Di-n-butylphthalate  | 630000                            | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Di-n-octyl phthalate   | 63000                             | 440 U      | 400 U      | 430 U      | 430 U      | 440 U      | 410 U      | 390 U      | 440 U      | 410 U  | 440 U  | 440 U |
| Fluoranthene   | 240000                            | 78 J       | 66 J       | 1800       | 210 J      | 210 J      | 410 U      | 390 U      | 440 U      | 390 U  | 440 U  | 52 J  |
| Fluorene   | 240000                            | 230 U      | 210 U      | 79 J       | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Indeno(1,2,3-cd)pyrene   | 1100                              | 230 U      | 210 U      | 480        | 82 J       | 84 J       | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Naphthalene  | 2000                              | 230 U      | 210 U      | 220 U      | 220 U      | 230 U      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Pentachlorophenol  | 1000                              | 440 U      | 400 U      | 430 U      | 430 U      | 440 U      | 410 U      | 390 U      | 440 U      | 410 U  | 440 U  | 440 U |
| Phenanthrene   | NL                                | 230 U      | 210 U      | 1100       | 110 J      | 72 J       | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 230 U |
| Phenol   | 1900000                           | 440 U      | 400 U      | 430 U      | 430 U      | 110 J      | 150 J      | 130 J      | 110 J      | 130 J  | 110 J  | 110 J |
| Pyrene   | 180000                            | 69 J       | 71 J       | 1600       | 190 J      | 180 J      | 210 U      | 200 U      | 230 U      | 210 U  | 230 U  | 49 J  |

**Notes:**

Composite samples were not analyzed for VOCs.  
Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis  
Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)  
Bold values indicate exceedance of residential RSL  
Red values indicate 3x background values (or above background RDL if background is non-detect)  
Unshaded columns are grab surface soil samples  
Gray shaded columns are composite surface soil samples  
Orange shaded columns are shallow subsurface soil samples  
Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/kg = micrograms per kilogram  
µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
SIM = selective ion monitoring  
SVOC = semivolatile organic compound  
TR = Target Risk  
VOC = volatile organic compound



Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-108 | NLR-SB-108 | NLR-SS-108 | NLR-CS-109 | NLR-SS-109 | NLR-CS-110 | NLR-DB-110 | NLR-SB-110 | NLR-SS-110 |           |
|---|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|
|   |                                   | MCOB39     | MCOBA3     | MCOAX1     | MCOB40     | MCOAX2     | MCOB41     | MCOB44     | MCOBA4     | MCOAX3     |           |
|   |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg     |
|   |                                   | 11/17/2020 | 11/17/2020 | 11/17/2020 | 11/10/2020 | 11/10/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  | 12/2/2020 |
| 0-0.5   | 2-4                               | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-6        |            |           |
| Field   | Field                             | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |            |           |
| VOC   | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |           |
| 2-Butanone  | 2700000                           |            | 9.9 U      |            | 13 U       |            | 11 U       |            | 12 U       |            | 13 U      |
| 2-Hexanone  | 20000                             |            | 9.9 U      |            | 13 U       |            | 11 U       |            | 12 U       |            | 13 U      |
| 4-Methyl-2-pentanone  | 3300000                           |            | 9.9 U      |            | 13 U       |            | 1.7 J      |            | 12 U       |            | 13 U      |
| Acetone   | 6100000                           |            | 4.5 J      |            | 5.7 J      |            | 11 U       |            | 12 U       |            | 5.7 J     |
| Chloroform  | 320                               |            | 5 U        |            | 6.6 U      |            | 5.7 U      |            | 5.8 U      |            | 5.9 U     |
| Methyl Acetate  | 7800000                           |            | 5 U        |            | 6.6 U      |            | 5.7 U      |            | 5.8 U      |            | 5.9 U     |
| Methylene chloride  | 35000                             |            | 5.2 J      |            | 6.6 U      |            | 6.4        |            | 5.8 U      |            | 5.9 U     |
| Tetrachloroethene   | 8100                              |            | 5 U        |            | 6.6 U      |            | 5.7 U      |            | 5.8 U      |            | 5.9 U     |
| Toluene   | 490000                            |            | 5 U        |            | 6.6 U      |            | 5.7 U      |            | 5.8 U      |            | 5.9 U     |
| Vinyl chloride  | 95                                |            | 5 U        |            | 6.6 U      |            | 5.7 U      |            | 5.8 U      |            | 5.9 U     |
| <b>PAH SIM</b>  |                                   |            |            |            |            |            |            |            |            |            |           |
| 2-Methylnaphthalene   | 24000                             |            | 4.6 U      |            | 4 U        |            | 4.5 U      |            | 1.6 J      |            | 7.7       |
| Acenaphthene  | 360000                            |            | 4.6 U      |            | 4 U        |            | 4.5 U      |            | 17         |            | 58        |
| Acenaphthylene  | NL                                |            | 1.6 J      |            | 0.84 J     |            | 1.2 J      |            | 6.6        |            | 12        |
| Anthracene  | 1800000                           |            | 2.7 J      |            | 1 J        |            | 2 J        |            | 71         |            | 140       |
| Benzo(a)anthracene  | 1100                              |            | 22 J       |            | 5.6 J      |            | 15 J       |            | 270        |            | 900 J     |
| Benzo(a)pyrene  | 110                               |            | 22         |            | 4.5 J      |            | 13         |            | 310        |            | 790 J     |
| Benzo(b)fluoranthene  | 1100                              |            | 35         |            | 6          |            | 19         |            | 460 J      |            | 1200 J    |
| Benzo(g,h,i)perylene  | NL                                |            | 15         |            | 3.2 J      |            | 7.4        |            | 190        |            | 500 J     |
| Benzo(k)fluoranthene  | 11000                             |            | 11         |            | 2.5 J      |            | 6.3        |            | 160        |            | 340 J     |
| Chrysene  | 110000                            |            | 25         |            | 5.6        |            | 15 J       |            | 280        |            | 850 J     |
| Dibenzo(a,h)anthracene  | 110                               |            | 4.1 J      |            | 1.4 J      |            | 2 J        |            | 50         |            | 130       |
| Fluoranthene  | 240000                            |            | 42         |            | 7.7        |            | 25         |            | 910 J      |            | 2000 J    |
| Fluorene  | 240000                            |            | 4.6 U      |            | 4 U        |            | 4.5 U      |            | 19         |            | 62        |
| Indeno(1,2,3-cd)pyrene  | 1100                              |            | 14         |            | 2.6 J      |            | 7.2        |            | 180        |            | 460 J     |
| Naphthalene   | 2000                              |            | 4.6 U      |            | 4 U        |            | 4.5 U      |            | 2.4 J      |            | 8.4       |
| Pentachlorophenol   | 1000                              |            | 9.3 U      |            | 8 U        |            | 9.1 U      |            | 8.9 U      |            | 8.2 U     |
| Phenanthrene  | NL                                |            | 14         |            | 3.7 J      |            | 8.4        |            | 360 J      |            | 1100 J    |
| Pyrene  | 180000                            |            | 40         |            | 9.4        |            | 27         |            | 480 J      |            | 1700 J    |
| <b>SVOCs</b>  |                                   |            |            |            |            |            |            |            |            |            |           |
| 1,1-Biphenyl  | 4700                              |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 210 U     |
| 2-Methylnaphthalene   | 24000                             |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 210 U     |
| Acenaphthene  | 360000                            |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 210 U     |
| Acenaphthylene  | NL                                |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 210 U     |
| Acetophenone  | 780000                            |            | 460 U      |            | 400 U      |            | 450 U      |            | 440 U      |            | 400 U     |
| Anthracene  | 1800000                           |            | 240 U      |            | 200 U      |            | 230 U      |            | 55 J       |            | 140 J     |
| Benzo(a)anthracene  | 1100                              |            | 240 U      |            | 200 U      |            | 230 U      |            | 360        |            | 800       |
| Benzo(a)pyrene  | 110                               |            | 240 U      |            | 200 U      |            | 230 U      |            | 380        |            | 850       |
| Benzo(b)fluoranthene  | 1100                              |            | 48 J       |            | 200 U      |            | 230 U      |            | 530        |            | 1200      |
| Benzo(g,h,i)perylene  | NL                                |            | 240 U      |            | 200 U      |            | 230 U      |            | 260        |            | 550       |
| Benzo(k)fluoranthene  | 11000                             |            | 240 U      |            | 200 U      |            | 230 U      |            | 190 J      |            | 470       |
| Bis(2-ethylhexyl)phthalate  | 390000                            |            | 240 U      |            | 110 J      |            | 230 U      |            | 90         |            | 200 J     |
| Butylbenzylphthalate  | 290000                            |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 160 J     |
| Carbazole   | NL                                |            | 460 U      |            | 400 U      |            | 450 U      |            | 45 J       |            | 130 J     |
| Chrysene  | 110000                            |            | 240 U      |            | 200 U      |            | 230 U      |            | 430        |            | 920       |
| Dibenzo(a,h)anthracene  | 110                               |            | 240 U      |            | 200 U      |            | 230 U      |            | 73 J       |            | 150 J     |
| Dibenzofuran  | 7800                              |            | 240 U      |            | 200 U      |            | 230 U      |            | 210 U      |            | 230 U     |
| Dimethylphthalate   | NL                                |            | 240 U      |            | 200 U      |            | 200 J      |            | 280        |            | 250       |
| Di-n-butylphthalate   | 630000                            |            | 240 U      |            | 200 U      |            | 230 U      |            | 210 U      |            | 230 U     |
| Di-n-octyl phthalate  | 63000                             |            | 460 U      |            | 400 U      |            | 450 U      |            | 440 U      |            | 400 U     |
| Fluoranthene  | 240000                            |            | 58 J       |            | 400 U      |            | 450 U      |            | 830        |            | 2100      |
| Fluorene  | 240000                            |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 55 J      |
| Indeno(1,2,3-cd)pyrene  | 1100                              |            | 240 U      |            | 200 U      |            | 230 U      |            | 250        |            | 490       |
| Naphthalene   | 2000                              |            | 240 U      |            | 200 U      |            | 230 U      |            | 230 U      |            | 210 U     |
| Pentachlorophenol   | 1000                              |            | 460 U      |            | 400 U      |            | 450 U      |            | 440 U      |            | 400 U     |
| Phenanthrene  | NL                                |            | 240 U      |            | 200 U      |            | 230 U      |            | 360        |            | 1200      |
| Phenol  | 1900000                           |            | 190 J      |            | 300 J      |            | 450 U      |            | 440 U      |            | 400 U     |
| Pyrene  | 180000                            |            | 240 U      |            | 200 U      |            | 230 U      |            | 710        |            | 1800      |

Notes:

- Composite samples were not analyzed for VOCs.
- Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis
- Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)
- Bold values indicate exceedance of residential RSL
- Red values indicate 3x background values (or above background RDL if background is non-detect)
- Unshaded columns are grab surface soil samples
- Gray shaded columns are composite surface soil samples
- Orange shaded columns are shallow subsurface soil samples
- Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/kg = micrograms per kilogram  
µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
SIM = selective ion monitoring  
SVOC = semivolatile organic compound  
TR = Target Risk  
VOC = volatile organic compound







Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-118 | NLR-SB-118 | NLR-SS-118 | NLR-CS-119 | NLR-DB-119 | NLR-SB-119 | NLR-SS-119 | NLR-CS-120 | NLR-SS-120 |            |       |        |       |        |       |        |   |
|---|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|--------|-------|--------|-------|--------|---|
|   |                                   | MC0B49     | MC0B49     | MCOAY2     | MC0B50     | MC0B06     | MC0B80     | MCOAY1     | MC0B51     | MCOAY3     |            |       |        |       |        |       |        |   |
|   |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |       |        |       |        |       |        |   |
|   |                                   | 11/17/2020 | 11/17/2020 | 11/17/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  | 11/11/2020 | 11/11/2020 | 11/11/2020 |       |        |       |        |       |        |   |
| 0-0.5   |                                   | 2-4        |            | 0-0.5      |            | 0-0.5      |            | 8-10       |            | 2-4        |            | 0-0.5 |        | 0-0.5 |        | 0-0.5 |        |   |
| Field   |                                   | Field      |            | Field      |            | Field      |            | Field      |            | Field      |            | Field |        | Field |        | Field |        |   |
| Result  |                                   | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q     | Result | Q     | Result | Q     | Result | Q |
| 2-Butanone  | 2700000                           |            | 11 U       |            | 14 U       |            | 11 U       |            | 13 U       |            | 14 U       |       | 14 U   |       | 11 U   |       | 11 U   |   |
| 2-Hexanone  | 20000                             |            | 11 U       |            | 14 U       |            | 11 U       |            | 13 U       |            | 14 U       |       | 14 U   |       | 11 U   |       | 11 U   |   |
| 4-Methyl-2-pentanone  | 3300000                           |            | 11 U       |            | 14 U       |            | 11 U       |            | 13 U       |            | 14 U       |       | 14 U   |       | 11 U   |       | 11 U   |   |
| Acetone   | 6100000                           |            | 9.4 J      |            | 11 J       |            | 11 U       |            | 13 U       |            | 21         |       |        |       | 6.3 J  |       |        |   |
| Chloroform  | 320                               |            | 5.7 U      |            | 7.2 U      |            | 5.5 U      |            | 6.3 U      |            | 6.9 U      |       | 6.9 U  |       | 5.6 U  |       | 5.6 U  |   |
| Methyl Acetate  | 7800000                           |            | 5.7 U      |            | 9.1        |            | 5.5 U      |            | 6.3 U      |            | 6.9 U      |       | 6.9 U  |       | 5.6 U  |       | 5.6 U  |   |
| Methylene chloride  | 35000                             |            | 6.6        |            | 8.7        |            | 8.3 U      |            | 8.2 U      |            | 14         |       | 14     |       | 5.6    |       | 5.6    |   |
| Tetrachloroethene   | 8100                              |            | 5.7 U      |            | 7.2 U      |            | 5.5 U      |            | 6.3 U      |            | 6.9 U      |       | 6.9 U  |       | 5.6 U  |       | 5.6 U  |   |
| Toluene   | 490000                            |            | 5.7 U      |            | 7.2 U      |            | 5.5 U      |            | 6.3 U      |            | 6.9 U      |       | 6.9 U  |       | 0.77 J |       | 0.77 J |   |
| Vinyl chloride  | 95                                |            | 5.7 U      |            | 7.2 U      |            | 5.5 U      |            | 6.3 U      |            | 6.9 U      |       | 6.9 U  |       | 5.6 U  |       | 5.6 U  |   |
| <b>PAH SIM</b>  |                                   |            |            |            |            |            |            |            |            |            |            |       |        |       |        |       |        |   |
| 2-Methylnaphthalene   | 24000                             | 1.6 J      | 4 U        | 1.1 J      | 1.9 J      | 4.1 U      | 4.1 U      | 2 J        | 1.2 J      | 5.8        |            |       |        |       |        |       |        |   |
| Acenaphthene  | 360000                            | 6.4        | 4 U        | 1.3 J      | 2.9 J      | 4.1 U      | 4.1 U      | 1.1 J      | 1.4 J      | 2.3 J      |            |       |        |       |        |       |        |   |
| Acenaphthylene  | NL                                | 33         | 4 U        | 4.1 J      | 1.7 J      | 4.1 U      | 4.1 U      | 1.8 J      | 1.6 J      | 1.7 J      |            |       |        |       |        |       |        |   |
| Anthracene  | 1800000                           | 70         | 4 U        | 7.1        | 7.3        | 4.1 U      | 4.1 U      | 3 J        | 4.4        | 13         |            |       |        |       |        |       |        |   |
| Benzo(a)anthracene  | 1100                              | 340 J      | 4 U        | 45 J       | 64         | 4.1 U      | 4.1 U      | 29         | 39         | 65         |            |       |        |       |        |       |        |   |
| Benzo(a)pyrene  | 110                               | 230        | 4 U        | 41         | 80         | 4.1 U      | 4.1 U      | 33         | 49         | 62         |            |       |        |       |        |       |        |   |
| Benzo(b)fluoranthene  | 1100                              | 310        | 4 U        | 57         | 130        | 4.1 U      | 4.1 U      | 53         | 72         | 65         |            |       |        |       |        |       |        |   |
| Benzo(g,h,i)perylene  | NL                                | 110        | 4 U        | 27         | 41         | 4.1 U      | 4.1 U      | 18         | 34         | 33         |            |       |        |       |        |       |        |   |
| Benzo(k)fluoranthene  | 11000                             | 110        | 4 U        | 17         | 40         | 4.1 U      | 4.1 U      | 18         | 26         | 27         |            |       |        |       |        |       |        |   |
| Chrysene  | 110000                            | 270        | 4 U        | 41 J       | 94         | 4.1 U      | 4.1 U      | 38         | 55         | 57         |            |       |        |       |        |       |        |   |
| Dibenzo(a,h)anthracene  | 110                               | 41         | 4 U        | 7.1        | 13         | 4.1 U      | 4.1 U      | 5.6        | 9.9        | 10         |            |       |        |       |        |       |        |   |
| Fluoranthene  | 240000                            | 570 J      | 0.9 J      | 68         | 150        | 4.1 U      | 4.1 U      | 60         | 73         | 110        |            |       |        |       |        |       |        |   |
| Fluorene  | 240000                            | 12         | 4 U        | 1.6 J      | 2.6 J      | 4.1 U      | 4.1 U      | 1.2 J      | 1.4 J      | 2.4 J      |            |       |        |       |        |       |        |   |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 110        | 4 U        | 24         | 42         | 4.1 U      | 4.1 U      | 19         | 33         | 33         |            |       |        |       |        |       |        |   |
| Naphthalene   | 2000                              | 3.1 J      | 4 U        | 1.2 J      | 2 J        | 4.1 U      | 4.1 U      | 2 J        | 1.3 J      | 4.4        |            |       |        |       |        |       |        |   |
| Pentachlorophenol   | 1000                              | 9.4 U      | 8.2 U      | 9.2 U      | 9.3 U      | 8.3 U      | 8.3 U      | 9.3 U      | 8.1 U      | 1.9 J      |            |       |        |       |        |       |        |   |
| Phenanthrene  | NL                                | 240        | 0.85 J     | 25         | 57         | 4.1 U      | 4.1 U      | 22         | 33         | 54         |            |       |        |       |        |       |        |   |
| Pyrene  | 180000                            | 550 J      | 0.98 J     | 70         | 140        | 4.1 U      | 4.1 U      | 59         | 77         | 88         |            |       |        |       |        |       |        |   |
| <b>SVOCs</b>  |                                   |            |            |            |            |            |            |            |            |            |            |       |        |       |        |       |        |   |
| 1,1-Biphenyl  | 4700                              | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| 2-Methylnaphthalene   | 24000                             | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Acenaphthene  | 360000                            | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Acenaphthylene  | NL                                | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Acetophenone  | 780000                            | 460 U      | 400 U      | 450 U      | 47 J       | 410 U      | 410 U      | 460 U      | 400 U      | 400 U      |            |       |        |       |        |       |        |   |
| Anthracene  | 1800000                           | 69 J       | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Benzo(a)anthracene  | 1100                              | 360        | 210 U      | 230 U      | 58 J       | 210 U      | 210 U      | 240 U      | 210 U      | 61 J       |            |       |        |       |        |       |        |   |
| Benzo(a)pyrene  | 110                               | 280        | 210 U      | 53 J       | 73 J       | 210 U      | 210 U      | 240 U      | 46 J       | 54 J       |            |       |        |       |        |       |        |   |
| Benzo(b)fluoranthene  | 1100                              | 330        | 210 U      | 61 J       | 110 J      | 210 U      | 210 U      | 240 U      | 52 J       | 65 J       |            |       |        |       |        |       |        |   |
| Benzo(g,h,i)perylene  | NL                                | 150 J      | 210 U      | 230 U      | 53 J       | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Benzo(k)fluoranthene  | 11000                             | 150 J      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 60 J       | 210 U      | 250        | 53 J       | 210 U      | 210 U      | 240 U      | 120 J      | 72 J       |            |       |        |       |        |       |        |   |
| Butylbenzylphthalate  | 290000                            | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Carbazole   | NL                                | 460 U      | 400 U      | 450 U      | 460 U      | 410 U      | 410 U      | 460 U      | 400 U      | 400 U      |            |       |        |       |        |       |        |   |
| Chrysene  | 110000                            | 330        | 210 U      | 230 U      | 90 J       | 210 U      | 210 U      | 240 U      | 50 J       | 61 J       |            |       |        |       |        |       |        |   |
| Dibenzo(a,h)anthracene  | 110                               | 56 J       | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Dibenzofuran  | 7800                              | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Dimethylphthalate   | NL                                | 240 U      | 210 U      | 450        | 170 J      | 310        | 280        | 190 J      | 140 J      | 350        |            |       |        |       |        |       |        |   |
| Di-n-butylphthalate   | 630000                            | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Di-n-octyl phthalate  | 63000                             | 460 U      | 400 U      | 450 U      | 460 U      | 410 U      | 410 U      | 460 U      | 400 U      | 400 U      |            |       |        |       |        |       |        |   |
| Fluoranthene  | 240000                            | 660        | 400 U      | 74 J       | 130 J      | 410 U      | 410 U      | 460 U      | 81 J       | 120 J      |            |       |        |       |        |       |        |   |
| Fluorene  | 240000                            | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 150 J      | 210 U      | 230 U      | 56 J       | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Naphthalene   | 2000                              | 240 U      | 210 U      | 230 U      | 230 U      | 210 U      | 210 U      | 240 U      | 210 U      | 210 U      |            |       |        |       |        |       |        |   |
| Pentachlorophenol   | 1000                              | 460 U      | 400 U      | 450 U      | 460 U      | 410 U      | 410 U      | 460 U      | 400 U      | 400 U      |            |       |        |       |        |       |        |   |
| Phenanthrene  | NL                                | 310        | 210 U      | 230 U      | 48 J       | 210 U      | 210 U      | 240 U      | 210 U      | 49 J       |            |       |        |       |        |       |        |   |
| Phenol  | 1900000                           | 66 J       | 190 J      | 450 U      | 140 J      | 67 J       | 120 J      | 91 J       | 400 U      | 400 U      |            |       |        |       |        |       |        |   |
| Pyrene  | 180000                            | 620        | 210 U      | 75 J       | 110 J      | 210 U      | 210 U      | 240 U      | 71 J       | 100 J      |            |       |        |       |        |       |        |   |

**Notes:**  
Composite samples were not analyzed for VOCs.  
Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis  
Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ.0.1 (EPA, 2020)  
Bold values indicate exceedance of residential RSL  
Red values indicate 3x background values (or above background RDL if background is non-detect)  
Unshaded columns are grab surface soil samples  
Graty shaded columns are composite surface soil samples  
Orange shaded columns are shallow subsurface soil samples  
Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/kg = micrograms per kilogram  
µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
SIM = selective ion monitoring  
SVOC = semivolatle organic compound  
TR = Target Risk  
VOC = volatle organic compound













Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-142 | NLR-SS-142 | NLR-CS-143 | NLR-DB-143 | NLR-SB-143 | NLR-SS-143 | NLR-CS-144 | NLR-SS-144 | NLR-CS-145 | NLR-SS-145 |
|---|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|   |                                   | MC0B73     | MC0B05     | MC0B74     | MC0B01     | MC0B05     | MC0B06     | MC0B75     | MC0B07     | MC0B76     | MC0B08     |
|   |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
|   |                                   | 11/12/2020 | 11/12/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/12/2020 | 11/12/2020 | 11/12/2020 | 11/12/2020 |
| Field   |                                   | Field      |            | Field      |            | Field      |            | Field      |            | Field      |            |
| Result  |                                   | Result     |            | Result     |            | Result     |            | Result     |            | Result     |            |
| Q   |                                   | Q          |            | Q          |            | Q          |            | Q          |            | Q          |            |
| <b>VOC</b>  |                                   |            |            |            |            |            |            |            |            |            |            |
| 2-Butanone  | 2700000                           |            | 15 U       |            | 13 U       | 14 U       | 13 U       |            | 13 U       |            | 13 U       |
| 2-Hexanone  | 20000                             |            | 15 U       |            | 13 U       | 14 U       | 13 U       |            | 13 U       |            | 13 U       |
| 4-Methyl-2-pentanone  | 3300000                           |            | 15 U       |            | 13 U       | 14 U       | 13 U       |            | 13 U       |            | 13 U       |
| Acetone   | 6100000                           |            | 8.5 J      |            | 13 U       | 14 U       | 13 U       |            | 13 U       |            | 7.8 J      |
| Chloroform  | 320                               |            | 7.5 U      |            | 6.6 U      | 6.9 U      | 6.3 U      |            | 6.4 U      |            | 6.7 U      |
| Methyl Acetate  | 7800000                           |            | 7.5 U      |            | 6.6 U      | 6.9 U      | 6.3 U      |            | 6.4 U      |            | 6.7 U      |
| Methylene chloride  | 35000                             |            | 7.5 U      |            | 8          | 8.5        | 6.3 U      |            | 6.4 U      |            | 6.7 U      |
| Tetrachloroethene   | 8100                              |            | 7.5 U      |            | 6.6 U      | 6.9 U      | 6.3 U      |            | 6.4 U      |            | 6.7 U      |
| Toluene   | 490000                            |            | 7.5 U      |            | 6.6 U      | 6.9 U      | 6.3 U      |            | 6.4 U      |            | 6.7 U      |
| Vinyl chloride  | 95                                |            | 7.5 U      |            | 6.6 U      | 6.9 U      | 6.3 U      |            | 6.4 U      |            | 0.68 J     |
| <b>PAH SIM</b>  |                                   |            |            |            |            |            |            |            |            |            |            |
| 2-Methylnaphthalene   | 24000                             | 3.9 J      | 3.7 J      | 4 J        | 4.1 U      | 0.83 J     | 2.9 J      | 4.7 U      | 2.2 J      | 1.5 J      | 4.7 U      |
| Acenaphthene  | 360000                            | 73         | 20         | 11         | 4.1 U      | 4.1 U      | 3.1 J      | 1.6 J      | 11         | 14         | 2.7 J      |
| Acenaphthylene  | NL                                | 7.8        | 3.4 J      | 7.8        | 4.1 U      | 1.1 J      | 7.6        | 1 J        | 3.5 J      | 2.9 J      | 1.2 J      |
| Anthracene  | 1800000                           | 310 J      | 69         | 47         | 4.1 U      | 1.1 J      | 17         | 6.4        | 46         | 61         | 9.1        |
| Benzo(a)anthracene  | 1100                              | 1800 J     | 330        | 300        | 4.1 U      | 6.9        | 120        | 73         | 440 J      | 240        | 72         |
| Benzo(a)pyrene  | 110                               | 1500 J     | 300        | 360 J      | 4.1 U      | 7.6        | 140        | 71         | 470 J      | 230        | 78         |
| Benzo(b)fluoranthene  | 1100                              | 2100 J     | 390 J      | 530 J      | 4.1 U      | 9.9        | 220        | 100        | 680 J      | 300        | 110        |
| Benzo(g,h,i)perylene  | NL                                | 910 J      | 180        | 230        | 4.1 U      | 5.3        | 87         | 59         | 360 J      | 150        | 60         |
| Benzo(k)fluoranthene  | 11000                             | 810 J      | 150        | 180        | 4.1 U      | 3.6 J      | 81         | 46         | 230 J      | 110        | 45         |
| Chrysene  | 110000                            | 2000 J     | 350        | 350        | 4.1 U      | 8          | 160        | 91         | 570 J      | 250        | 89         |
| Dibenzo(a,h)anthracene  | 110                               | 290 J      | 61         | 66         | 4.1 U      | 1.2 J      | 28         | 18         | 99         | 48         | 16         |
| Fluoranthene  | 240000                            | 3600 J     | 610 J      | 780 J      | 4.1 U      | 13         | 320        | 120        | 740 J      | 540 J      | 150        |
| Fluorene  | 240000                            | 87         | 21         | 15         | 4.1 U      | 4.1 U      | 6          | 1.8 J      | 11         | 13         | 2.6 J      |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 920 J      | 180        | 220        | 4.1 U      | 4.4        | 83         | 57         | 320 J      | 140        | 56         |
| Naphthalene   | 2000                              | 4 J        | 3.3 J      | 4.5        | 4.1 U      | 0.85 J     | 3 J        | 4.7 U      | 2.8 J      | 2.8 J      | 1.2 J      |
| Pentachlorophenol   | 1000                              | 9.6 U      | 3.4 J      | 9 U        | 8.2 U      | 8.4 U      | 8.8 U      | 9.5 U      | 8.9 U      | 9.6 U      | 6.9 J      |
| Phenanthrene  | NL                                | 1800 J     | 320        | 330        | 4.1 U      | 5.3        | 140        | 53         | 270 J      | 310        | 78         |
| Pyrene  | 180000                            | 3300 J     | 590 J      | 580 J      | 4.1 U      | 15         | 260        | 110        | 600 J      | 510 J      | 160        |
| <b>SVOCs</b>  |                                   |            |            |            |            |            |            |            |            |            |            |
| 1,1-Biphenyl  | 4700                              | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| 2-Methylnaphthalene   | 24000                             | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Acenaphthene  | 360000                            | 72 J       | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Acenaphthylene  | NL                                | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Acetophenone  | 780000                            | 470 U      | 460 U      | 440 U      | 410 U      | 410 U      | 430 U      | 470 U      | 440 U      | 470 U      | 470 U      |
| Anthracene  | 1800000                           | 330        | 78 J       | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 47 J       | 58 J       | 240 U      |
| Benzo(a)anthracene  | 1100                              | 2000       | 370        | 280        | 210 U      | 210 U      | 110 J      | 77 J       | 460        | 260        | 100 J      |
| Benzo(a)pyrene  | 110                               | 1800       | 330        | 300        | 210 U      | 210 U      | 130 J      | 76 J       | 510        | 240        | 79 J       |
| Benzo(b)fluoranthene  | 1100                              | 2600       | 460        | 460        | 210 U      | 210 U      | 190 J      | 120 J      | 760        | 320        | 60 J       |
| Benzo(g,h,i)perylene  | NL                                | 940        | 180 J      | 200 J      | 210 U      | 210 U      | 80 J       | 51 J       | 370        | 120 J      | 70 J       |
| Benzo(k)fluoranthene  | 11000                             | 840        | 150 J      | 120 J      | 210 U      | 210 U      | 70 J       | 240 U      | 240        | 120 J      | 60 J       |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 55 J       | 68 J       | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 270        | 240 U      | 70 J       |
| Butylbenzylphthalate  | 290000                            | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Carbazole   | NL                                | 130 J      | 460 U      | 440 U      | 410 U      | 410 U      | 430 U      | 470 U      | 440 U      | 470 U      | 470 U      |
| Chrysene  | 110000                            | 2200       | 370        | 320        | 210 U      | 210 U      | 160 J      | 97 J       | 590        | 270        | 92 J       |
| Dibenzo(a,h)anthracene  | 110                               | 320        | 60 J       | 57 J       | 210 U      | 210 U      | 220 U      | 240 U      | 120 J      | 51 J       | 240 U      |
| Dibenzofuran  | 7800                              | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Dimethylphthalate   | NL                                | 140 J      | 240        | 280        | 210        | 210        | 150 J      | 73 J       | 390        | 180 J      | 110 J      |
| Di-n-butylphthalate   | 630000                            | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Di-n-octyl phthalate  | 63000                             | 470 U      | 460 U      | 440 U      | 410 U      | 410 U      | 430 U      | 470 U      | 440 U      | 470 U      | 470 U      |
| Fluoranthene  | 240000                            | 3900       | 740        | 710        | 410 U      | 410 U      | 340 J      | 140 J      | 760        | 610        | 190 J      |
| Fluorene  | 240000                            | 87 J       | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 980        | 190 J      | 180 J      | 210 U      | 210 U      | 78 J       | 240 U      | 330        | 130 J      | 87 J       |
| Naphthalene   | 2000                              | 240 U      | 240 U      | 230 U      | 210 U      | 210 U      | 220 U      | 240 U      | 220 U      | 240 U      | 240 U      |
| Pentachlorophenol   | 1000                              | 470 U      | 460 U      | 440 U      | 410 U      | 410 U      | 430 U      | 470 U      | 440 U      | 470 U      | 470 U      |
| Phenanthrene  | NL                                | 1900       | 350        | 290        | 210 U      | 210 U      | 130 J      | 50 J       | 290        | 320        | 97 J       |
| Phenol  | 1900000                           | 93 J       | 460 U      | 230 J      | 120 J      | 89 J       | 60 J       | 71 J       | 440 U      | 130 J      | 470 U      |
| Pyrene  | 180000                            | 3500       | 650        | 510        | 210 U      | 210 U      | 230        | 130 J      | 730        | 530        | 170 J      |

**Notes:**  
Composite samples were not analyzed for VOCs.  
Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis  
Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)  
Bold values indicate exceedance of residential RSL  
Red values indicate 3x background values (or above background RDL if background is non-detect)  
Unshaded columns are grab surface soil samples  
Gray shaded columns are composite surface soil samples  
Orange shaded columns are shallow subsurface soil samples  
Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/kg = micrograms per kilogram  
µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
SIM = selective ion monitoring  
SVOC = semivolatile organic compound  
TR = Target Risk  
VOC = volatile organic compound



Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-146 | NLR-DB-146 | NLR-SB-146 | NLR-SS-146 | NLR-DB-146-01 | NLR-CS-147 | NLR-DB-147 | NLR-SB-147 | NLR-SS-147 |       |
|---|-----------------------------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|-------|
|   |                                   | MC0B77     | MC0B2      | MC0B6      | MC0B9      | MC0B7         | MC0B78     | MC0B3      | MC0B7      | MC0B10     |       |
|   |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg         | µg/kg      | µg/kg      | µg/kg      | µg/kg      |       |
|   |                                   | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020    | 12/2/2020  | 11/19/2020 | 11/19/2020 | 12/2/2020  |       |
|   |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 8-10          | 0-0.5      | 8-10       | 2-4        | 0-0.5      |       |
| Field   | Field                             | Field      | Field      | Field      | Field      | Field         | Field      | Field      | Field      |            |       |
| VOC   | Result                            | Q          | Result     | Q          | Result     | Q             | Result     | Q          | Result     | Q          |       |
| 2-Butanone  | 2700000                           |            |            | 9.9 U      | 14 R       | 15 U          | 15 U       |            | 31 U       | 11 U       | 14 U  |
| 2-Hexanone  | 20000                             |            |            | 9.9 U      | 14 R       | 15 U          | 15 U       |            | 31 U       | 11 U       | 14 U  |
| 4-Methyl-2-pentanone  | 3300000                           |            |            | 9.9 U      | 14 R       | 15 U          | 15 U       |            | 4.7 J      | 11 U       | 14 U  |
| Acetone   | 6100000                           |            |            | 9.9 U      | 14 R       | 20            | 15 U       |            | 31 U       | 3.1 J      | 14 U  |
| Chloroform  | 320                               |            |            | 5 U        | 6.9 R      | 7.4 U         | 7.6 U      |            | 16 U       | 5.3 U      | 6.8 U |
| Methyl Acetate  | 7800000                           |            |            | 5 U        | 6.9 R      | 7.4 U         | 7.6 U      |            | 16 U       | 5.3 U      | 6.8 U |
| Methylene chloride  | 35000                             |            |            | 5 U        | 14 J+      | 7.4 U         | 11         |            | 20         | 5.3 U      | 8.4   |
| Tetrachloroethene   | 8100                              |            |            | 5 U        | 6.9 R      | 7.4 U         | 7.6 U      |            | 16 U       | 5.3 U      | 6.8 U |
| Toluene   | 490000                            |            |            | 5 U        | 6.9 R      | 7.4 U         | 7.6 U      |            | 16 U       | 5.3 U      | 6.8 U |
| Vinyl chloride  | 95                                |            |            | 5 U        | 6.9 R      | 7.4 U         | 7.6 U      |            | 16 U       | 5.3 U      | 6.8 U |
| <b>PAH SIM</b>  |                                   |            |            |            |            |               |            |            |            |            |       |
| 2-Methylnaphthalene   | 24000                             | 2.6 J      | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 U      | 3.6 U      | 3.9 U      | 4.6 U      |       |
| Acenaphthene  | 360000                            | 21         | 4 U        | 4.1 U      | 1 J        | 3.9 U         | 4.4 U      | 3.6 U      | 3.9 U      | 4.6 U      |       |
| Acenaphthylene  | NL                                | 4.8        | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 2.1 J      | 3.6 U      | 3.9 U      | 0.94 J     |       |
| Anthracene  | 1800000                           | 57         | 4 U        | 4.1 U      | 3.6 J      | 3.9 U         | 4.5        | 3.6 U      | 3.9 U      | 1.4 J      |       |
| Benzo(a)anthracene  | 1100                              | 230        | 4 U        | 4.1 U      | 39         | 3.9 U         | 26         | 3.6 U      | 3.9 U      | 13         |       |
| Benzo(a)pyrene  | 110                               | 190        | 4 U        | 4.1 U      | 46         | 3.9 U         | 24         | 3.6 U      | 3.9 U      | 14         |       |
| Benzo(b)fluoranthene  | 1100                              | 300        | 4 U        | 4.1 U      | 73         | 3.9 U         | 34         | 3.6 U      | 3.9 U      | 22         |       |
| Benzo(g,h,i)perylene  | NL                                | 110        | 4 U        | 4.1 U      | 29         | 3.9 U         | 16         | 3.6 U      | 3.9 U      | 7.5        |       |
| Benzo(k)fluoranthene  | 11000                             | 99         | 4 U        | 4.1 U      | 27         | 3.9 U         | 19         | 3.6 U      | 3.9 U      | 7.3        |       |
| Chrysene  | 110000                            | 270        | 4 U        | 4.1 U      | 53         | 3.9 U         | 27         | 3.6 U      | 3.9 U      | 16         |       |
| Dibenzo(a,h)anthracene  | 110                               | 29         | 4 U        | 4.1 U      | 7.7        | 3.9 U         | 13         | 3.6 U      | 3.9 U      | 2.4 J      |       |
| Fluoranthene  | 240000                            | 710 J      | 4 U        | 4.1 U      | 88         | 3.9 U         | 27         | 3.6 U      | 3.9 U      | 26         |       |
| Fluorene  | 240000                            | 22         | 4 U        | 4.1 U      | 1.1 J      | 3.9 U         | 4.4 U      | 3.6 U      | 3.9 U      | 4.6 U      |       |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 110        | 4 U        | 4.1 U      | 28         | 3.9 U         | 17         | 3.6 U      | 3.9 U      | 7.8        |       |
| Naphthalene   | 2000                              | 3.9 J      | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 U      | 3.6 U      | 3.9 U      | 4.6 U      |       |
| Pentachlorophenol   | 1000                              | 8.4 U      | 8.1 U      | 8.4 U      | 9.4 U      | 8 U           | 6.7 J      | 7.3 U      | 7.9 U      | 9.2 U      |       |
| Phenanthrene  | NL                                | 570 J      | 4 U        | 4.1 U      | 34         | 3.9 U         | 6.9        | 3.6 U      | 3.9 U      | 8.7        |       |
| Pyrene  | 180000                            | 550 J      | 4 U        | 4.1 U      | 80         | 3.9 U         | 32         | 3.6 U      | 3.9 U      | 25         |       |
| <b>SVOCs</b>  |                                   |            |            |            |            |               |            |            |            |            |       |
| 1,1-Biphenyl  | 4700                              | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| 2-Methylnaphthalene   | 24000                             | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Acenaphthene  | 360000                            | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Acenaphthylene  | NL                                | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Acetophenone  | 780000                            | 420 U      | 400 U      | 410 U      | 460 U      | 390 U         | 440 U      | 360 U      | 390 U      | 460 U      |       |
| Anthracene  | 1800000                           | 63 J       | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Benzo(a)anthracene  | 1100                              | 240        | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Benzo(a)pyrene  | 110                               | 200 J      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Benzo(b)fluoranthene  | 1100                              | 280        | 210 U      | 210 U      | 60 J       | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Benzo(g,h,i)perylene  | NL                                | 110 J      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Benzo(k)fluoranthene  | 11000                             | 130 J      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Butylbenzylphthalate  | 290000                            | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Carbazole   | NL                                | 71 J       | 400 U      | 410 U      | 460 U      | 390 U         | 440 U      | 360 U      | 390 U      | 460 U      |       |
| Chrysene  | 110000                            | 280        | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Dibenzo(a,h)anthracene  | 110                               | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Dibenzofuran  | 7800                              | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Dimethylphthalate   | NL                                | 150 J      | 380        | 150 J      | 79 J       | 210           | 130 J      | 330        | 310        | 92 J       |       |
| Di-n-butylphthalate   | 630000                            | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Di-n-octyl phthalate  | 63000                             | 420 U      | 400 U      | 410 U      | 460 U      | 390 U         | 440 U      | 360 U      | 390 U      | 460 U      |       |
| Fluoranthene  | 240000                            | 750        | 400 U      | 410 U      | 95 J       | 390 U         | 440 U      | 360 U      | 390 U      | 460 U      |       |
| Fluorene  | 240000                            | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 110 J      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Naphthalene   | 2000                              | 210 U      | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Pentachlorophenol   | 1000                              | 420 U      | 400 U      | 410 U      | 460 U      | 390 U         | 440 U      | 360 U      | 390 U      | 460 U      |       |
| Phenanthrene  | NL                                | 570        | 210 U      | 210 U      | 240 U      | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |
| Phenol  | 1900000                           | 76 J       | 280 J      | 84 J       | 460 U      | 84 J          | 93 J       | 220 J      | 230 J      | 110 J      |       |
| Pyrene  | 180000                            | 540        | 210 U      | 210 U      | 64 J       | 200 U         | 230 U      | 180 U      | 200 U      | 230 U      |       |

**Notes:**

Composite samples were not analyzed for VOCs.  
 Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis  
 Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ.0.1 (EPA, 2020)  
 Bold values indicate exceedance of residential RSL  
 Red values indicate 3x background values (or above background RDL if background is non-detect)  
 Unshaded columns are grab surface soil samples  
 Gray shaded columns are composite surface soil samples  
 Orange shaded columns are shallow subsurface soil samples  
 Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower  
 U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/kg = micrograms per kilogram  
 µg/kg = micrograms per kilogram  
 CLP = Contract Laboratory Program  
 HQ = Hazard Quotient  
 NL = No listed value  
 PAH = polycyclic aromatic hydrocarbon  
 Q = Qualifier  
 SIM = selective ion monitoring  
 SVOC = semivolatile organic compound  
 TR = Target Risk  
 VOC = volatile organic compound



Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-152 | NLR-SS-152 | NLR-CS-153 | NLR-SS-153 | NLR-CS-154 | NLR-SS-154 | NLR-CS-155 | NLR-SS-155 | NLR-CS-100 | NLR-SB-100 | NLR-SS-100 |            |
|---|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|   |                                   | MC0883     | MC0815     | MC0884     | MC0816     | MC0885     | MC0817     | MC0886     | MC0818     | MC0831     | MC08A0     | MC0AW3     |            |
|   |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
|   |                                   | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020 |
|   |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |            |
|   |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Background | Background | Background |            |
| VOC   |                                   | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| 2-Butanone  | 2700000                           |            |            | 19 U       |            |            |            | 15 U       |            |            |            | 15 U       |            |
| 2-Hexanone  | 20000                             |            |            | 19 U       |            |            |            | 15 U       |            |            |            | 15 U       |            |
| 4-Methyl-2-pentanone  | 3300000                           |            |            | 19 U       |            |            |            | 15 U       |            |            |            | 11 U       |            |
| Acetone   | 6100000                           |            |            | 19 U       |            |            |            | 15 U       |            |            |            | 2.9 J      |            |
| Chloroform  | 320                               |            |            | 9.4 U      |            |            |            | 7.3 U      |            |            |            | 5.4 U      |            |
| Methyl Acetate  | 7800000                           |            |            | 9.4 U      |            |            |            | 7.3 U      |            |            |            | 5.4 U      |            |
| Methylene chloride  | 35000                             |            |            | 9.4 U      |            |            |            | 7.3 U      |            |            |            | 5.4 U      |            |
| Tetrachloroethene   | 8100                              |            |            | 9.4 U      |            |            |            | 7.3 U      |            |            |            | 5.4 U      |            |
| Toluene   | 490000                            |            |            | 9.4 U      |            |            |            | 7.3 U      |            |            |            | 5.4 U      |            |
| Vinyl chloride  | 95                                |            |            | 9.4 U      |            |            |            | 7.3 U      |            |            |            | 5.4 U      |            |
| <b>PAH SIM</b>  |                                   |            |            |            |            |            |            |            |            |            |            |            |            |
| 2-Methylnaphthalene   | 24000                             | 4.5 U      |            | 5.5 U      |            | 2 J        |            | 1.4 J      |            | 2.6 J      |            | 8.6        |            |
| Acenaphthene  | 360000                            | 4.5 U      |            | 5.5 U      |            | 13         |            | 3.3 J      |            | 15         |            | 78         |            |
| Acenaphthylene  | NL                                | 0.92 J     |            | 5.5 U      |            | 7          |            | 2.8 J      |            | 4.3 J      |            | 12         |            |
| Anthracene  | 1800000                           | 4.5 U      |            | 1.9 J      |            | 120        |            | 21         |            | 56         |            | 310 J      |            |
| Benzo(a)anthracene  | 1100                              | 3.9 J      |            | 5 J        |            | 690 J      |            | 160        |            | 450 J      |            | 2400 J     |            |
| Benzo(a)pyrene  | 110                               | 3.5 J      |            | 4.5 J      |            | 590 J      |            | 150        |            | 500 J      |            | 1800 J     |            |
| Benzo(b)fluoranthene  | 1100                              | 5          |            | 5.4 J      |            | 970 J      |            | 280        |            | 780 J      |            | 2600 J     |            |
| Benzo(g,h,i)perylene  | NL                                | 2 J        |            | 2.9 J      |            | 400 J      |            | 110        |            | 380        |            | 1300 J     |            |
| Benzo(k)fluoranthene  | 11000                             | 1.7 J      |            | 2.3 J      |            | 350        |            | 86         |            | 300        |            | 940 J      |            |
| Chrysene  | 110000                            | 3.8 J      |            | 5.2 J      |            | 780 J      |            | 180        |            | 600 J      |            | 3000 J     |            |
| Dibenzo(a,h)anthracene  | 110                               | 4.5 U      |            | 5.5 U      |            | 130        |            | 45         |            | 110        |            | 400 J      |            |
| Fluoranthene  | 240000                            | 6.6        |            | 9.7        |            | 1300 J     |            | 220        |            | 740 J      |            | 4400 J     |            |
| Fluorene  | 240000                            | 4.5 U      |            | 5.5 U      |            | 25         |            | 5.2        |            | 13         |            | 71         |            |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 1.9 J      |            | 2.7 J      |            | 420 J      |            | 100        |            | 360        |            | 1300 J     |            |
| Naphthalene   | 2000                              | 4.5 U      |            | 5.5 U      |            | 2.6 J      |            | 1.6 J      |            | 3.7 J      |            | 14         |            |
| Pentachlorophenol   | 1000                              | 9.2 U      |            | 11 U       |            | 9.6 U      |            | 9.3 U      |            | 9.6 U      |            | 9.2 U      |            |
| Phenanthrene  | NL                                | 3.2 J      |            | 8.1        |            | 420 J      |            | 75         |            | 240        |            | 1700 J     |            |
| Pyrene  | 180000                            | 7.8        |            | 11         |            | 960 J      |            | 220        |            | 720 J      |            | 3500 J     |            |
| <b>SVOCs</b>  |                                   |            |            |            |            |            |            |            |            |            |            |            |            |
| 1,1-Biphenyl  | 4700                              | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 260 U      |            | 230 U      |            |
| 2-Methylnaphthalene   | 24000                             | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 260 U      |            | 230 U      |            |
| Acenaphthene  | 360000                            | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 260 U      |            | 230 U      |            |
| Acenaphthylene  | NL                                | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 260 U      |            | 230 U      |            |
| Acetophenone  | 780000                            | 450 U      |            | 550 U      |            | 470 U      |            | 460 U      |            | 500 U      |            | 460 U      |            |
| Anthracene  | 1800000                           | 230 U      |            | 280 U      |            | 150 J      |            | 240 U      |            | 240 U      |            | 260        |            |
| Benzo(a)anthracene  | 1100                              | 230 U      |            | 280 U      |            | 890        |            | 180        |            | 490        |            | 2400       |            |
| Benzo(a)pyrene  | 110                               | 230 U      |            | 280 U      |            | 780        |            | 180 J      |            | 510        |            | 2300       |            |
| Benzo(b)fluoranthene  | 1100                              | 230 U      |            | 280 U      |            | 1300       |            | 280        |            | 780        |            | 3600       |            |
| Benzo(g,h,i)perylene  | NL                                | 230 U      |            | 280 U      |            | 390        |            | 110 J      |            | 280        |            | 1400       |            |
| Benzo(k)fluoranthene  | 11000                             | 230 U      |            | 280 U      |            | 360        |            | 100 J      |            | 290        |            | 1100       |            |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 230 U      |            | 280 U      |            | 99 J       |            | 240 U      |            | 170 J      |            | 480        |            |
| Butylbenzylphthalate  | 290000                            | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 260 U      |            | 230 U      |            |
| Carbazole   | NL                                | 450 U      |            | 550 U      |            | 52 J       |            | 460 U      |            | 470 U      |            | 460 U      |            |
| Chrysene  | 110000                            | 230 U      |            | 280 U      |            | 920        |            | 200 J      |            | 590        |            | 2800       |            |
| Dibenzo(a,h)anthracene  | 110                               | 230 U      |            | 280 U      |            | 150 J      |            | 240 U      |            | 100 J      |            | 460        |            |
| Dibenzofuran  | 7800                              | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 240 U      |            | 260 U      |            |
| Dimethylphthalate   | NL                                | 110 J      |            | 220 J      |            | 130 J      |            | 93 J       |            | 87 J       |            | 94 J       |            |
| Di-n-butylphthalate   | 630000                            | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 240 U      |            | 260 U      |            |
| Di-n-octyl phthalate  | 63000                             | 450 U      |            | 550 U      |            | 470 U      |            | 460 U      |            | 500 U      |            | 460 U      |            |
| Fluoranthene  | 240000                            | 450 U      |            | 550 U      |            | 1700       |            | 250 J      |            | 860        |            | 3900       |            |
| Fluorene  | 240000                            | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 240 U      |            | 260 U      |            |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 230 U      |            | 280 U      |            | 460        |            | 110 J      |            | 290        |            | 1400       |            |
| Naphthalene   | 2000                              | 230 U      |            | 280 U      |            | 240 U      |            | 240 U      |            | 260 U      |            | 230 U      |            |
| Pentachlorophenol   | 1000                              | 450 U      |            | 550 U      |            | 470 U      |            | 460 U      |            | 500 U      |            | 460 U      |            |
| Phenanthrene  | NL                                | 230 U      |            | 280 U      |            | 520        |            | 89 J       |            | 240        |            | 1600       |            |
| Phenol  | 1900000                           | 88 J       |            | 220 J      |            | 88 J       |            | 86 J       |            | 70 J       |            | 100 J      |            |
| Pyrene  | 180000                            | 230 U      |            | 280 U      |            | 1300       |            | 240        |            | 730        |            | 3700       |            |

Notes:  
Composite samples were not analyzed for VOCs.  
Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis  
Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)  
Bold values indicate exceedance of residential RSL  
Red values indicate 3x background values (or above background RDL if background is non-detect)  
Unshaded columns are grab surface soil samples  
Gray shaded columns are composite surface soil samples  
Orange shaded columns are shallow subsurface soil samples  
Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower  
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/kg = micrograms per kilogram  
µg/kg = micrograms per kilogram  
CLP = Contract Laboratory Program  
HQ = Hazard Quotient  
NL = No listed value  
PAH = polycyclic aromatic hydrocarbon  
Q = Qualifier  
SIM = selective ion monitoring  
SVOC = semivolatle organic compound  
TR = Target Risk  
VOC = volatile organic compound





Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type:                                     | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-165 |  | NLR-SS-165 |  | NLR-CS-166 |  | NLR-SB-166 |  | NLR-SS-166 |  | NLR-CS-167 |  | NLR-SB-167 |  | NLR-SS-167 |  | NLR-CS-168 |  | NLR-SS-168 |  | NLR-CS-168-01 |  | NLR-SS-168-01 |  |            |  |
|---|-----------------------------------|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|---------------|--|---------------|--|------------|--|
|   |                                   | MC0896     |  | MC0828     |  | MC0897     |  | MC08D1     |  | MC0829     |  | MC0898     |  | MC08D2     |  | MC0830     |  | MC08F9     |  | MC08G1     |  | MC08G0        |  | MC08G2        |  |            |  |
|   |                                   | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg      |  | µg/kg         |  | µg/kg         |  | µg/kg      |  |
|   |                                   | 12/2/2020  |  | 12/2/2020  |  | 11/19/2020 |  | 11/19/2020 |  | 11/19/2020 |  | 12/2/2020  |  | 11/19/2020 |  | 12/2/2020  |  | 11/16/2020 |  | 11/16/2020 |  | 11/16/2020    |  | 11/16/2020    |  | 11/16/2020 |  |
| 0-0.5   |                                   | 0-0.5      |  | 0-0.5      |  | 2-4        |  | 0-0.5      |  | 0-0.5      |  | 2-4        |  | 0-0.5      |  | 0-0.5      |  | 0-0.5      |  | 0-0.5      |  | 0-0.5         |  | 0-0.5         |  |            |  |
| Background  |                                   | Background |  | Background |  | Background |  | Background |  | Background |  | Background |  | Background |  | Field      |  | Field      |  | Field      |  | Field         |  | Field         |  |            |  |
| Result  |                                   | Q          |  | Result     |  | Q          |  | Result     |  | Q          |  | Result     |  | Q          |  | Result     |  | Q          |  | Result     |  | Q             |  | Result        |  | Q          |  |
| <b>VOC</b>  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| 2-Butanone  | 2700000                           |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| 2-Hexanone  | 20000                             |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| 4-Methyl-2-pentanone  | 3300000                           |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Acetone   | 6100000                           |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Chloroform  | 320                               |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Methyl Acetate  | 7800000                           |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Methylene chloride  | 35000                             |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Tetrachloroethene   | 8100                              |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Toluene   | 490000                            |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Vinyl chloride  | 95                                |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| <b>PAH SIM</b>  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| 2-Methylnaphthalene   | 24000                             | 2.3 J      |  | 2.3 J      |  | 1 J        |  | 3.9 U      |  | 0.95 J     |  | 2.4 J      |  | 4.1 U      |  | 1.5 J      |  | 4.2 U      |  | 4.2 U      |  | 4.3 U         |  | 3.1 J         |  |            |  |
| Acenaphthene  | 360000                            | 4.1 J      |  | 22         |  | 4.1 U      |  | 3.9 U      |  | 4.1 U      |  | 2.1 J      |  | 4.1 U      |  | 1.4 J      |  | 4.2 U      |  | 4.2 U      |  | 4.3 U         |  | 5.8           |  |            |  |
| Acenaphthylene  | NL                                | 6          |  | 6.8        |  | 3.5 J      |  | 3.9 U      |  | 3.4 J      |  | 3.9 J      |  | 4.1 U      |  | 5          |  | 4.2 U      |  | 4.2 U      |  | 0.95 J        |  | 5.6           |  |            |  |
| Anthracene  | 1800000                           | 26         |  | 93         |  | 3.4 J      |  | 3.9 U      |  | 2.9 J      |  | 10         |  | 4.1 U      |  | 7.9        |  | 0.98 J     |  | 4.2 U      |  | 4.3 U         |  | 18            |  |            |  |
| Benzo(a)anthracene  | 1100                              | 100        |  | 290        |  | 17         |  | 3.9 U      |  | 17         |  | 90         |  | 4.1 U      |  | 48         |  | 7.2 J      |  | 2.5 J      |  | 7.9 J         |  | 44 J          |  |            |  |
| Benzo(a)pyrene  | 110                               | 92         |  | 260        |  | 20         |  | 3.9 U      |  | 20         |  | 99         |  | 4.1 U      |  | 50         |  | 6.7        |  | 2.9 J      |  | 7.3           |  | 28            |  |            |  |
| Benzo(b)fluoranthene  | 1100                              | 130        |  | 380 J      |  | 30         |  | 3.9 U      |  | 28         |  | 140        |  | 4.1 U      |  | 85         |  | 10         |  | 4.2        |  | 11            |  | 38            |  |            |  |
| Benzo(g,h,i)perylene  | NL                                | 50         |  | 120        |  | 12         |  | 3.9 U      |  | 11         |  | 60         |  | 4.1 U      |  | 24         |  | 4 J        |  | 3 J        |  | 4.5           |  | 13            |  |            |  |
| Benzo(k)fluoranthene  | 11000                             | 52         |  | 130        |  | 10         |  | 3.9 U      |  | 9.7        |  | 56         |  | 4.1 U      |  | 22         |  | 3.3 J      |  | 1.4 J      |  | 4.2 J         |  | 12            |  |            |  |
| Chrysene  | 110000                            | 98         |  | 280        |  | 20         |  | 3.9 U      |  | 18         |  | 94         |  | 4.1 U      |  | 49         |  | 7.8 J      |  | 3.3 J      |  | 8.1 J         |  | 33 J          |  |            |  |
| Dibenzo(a,h)anthracene  | 110                               | 18         |  | 36         |  | 4 J        |  | 3.9 U      |  | 4.2        |  | 18         |  | 4.1 U      |  | 7.9        |  | 1.1 J      |  | 4.2 U      |  | 1.3 J         |  | 4.7           |  |            |  |
| Fluoranthene  | 240000                            | 180        |  | 620 J      |  | 30         |  | 3.9 U      |  | 26         |  | 140        |  | 4.1 U      |  | 110        |  | 12         |  | 4.2        |  | 13            |  | 65            |  |            |  |
| Fluorene  | 240000                            | 5.6        |  | 21         |  | 4.1 U      |  | 3.9 U      |  | 4.1 U      |  | 2.5 J      |  | 4.1 U      |  | 1.8 J      |  | 4.2 U      |  | 4.2 U      |  | 4.3 U         |  | 8.1           |  |            |  |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 54         |  | 130        |  | 12         |  | 3.9 U      |  | 10         |  | 61         |  | 4.1 U      |  | 26         |  | 3.8 J      |  | 2.2 J      |  | 4.3           |  | 13            |  |            |  |
| Naphthalene   | 2000                              | 2.8 J      |  | 2.1 J      |  | 1.3 J      |  | 3.9 U      |  | 1.2 J      |  | 2 J        |  | 4.1 U      |  | 1.6 J      |  | 0.89 J     |  | 4.2 U      |  | 4.3 U         |  | 3.7 J         |  |            |  |
| Pentachlorophenol   | 1000                              | 8.9 U      |  | 8.3 U      |  | 8.3 U      |  | 8 U        |  | 8.3 U      |  | 8.7 U      |  | 8.4 U      |  | 8.2 U      |  | 8.5 U      |  | 8.4 U      |  | 8.7 U         |  | 8.5 U         |  |            |  |
| Phenanthrene  | NL                                | 99         |  | 370 J      |  | 11         |  | 3.9 U      |  | 7.4        |  | 48         |  | 4.1 U      |  | 33         |  | 4.8        |  | 1.6 J      |  | 4.4           |  | 59            |  |            |  |
| Pyrene  | 180000                            | 190        |  | 570 J      |  | 26         |  | 3.9 U      |  | 25         |  | 140        |  | 4.1 U      |  | 100        |  | 13         |  | 4.5        |  | 13            |  | 59            |  |            |  |
| <b>Notes:</b>   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Composite samples were not analyzed for VOCs.   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC analysis |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)                          |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Bold values indicate exceedance of residential RSL  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Red values indicate 3x background values (or above background RDL if background is non-detect)                                  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Unshaded columns are grab surface soil samples  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Gray shaded columns are composite surface soil samples  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Orange shaded columns are shallow subsurface soil samples   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Green shaded columns are deep subsurface soil samples   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| J = Reported value is estimated; actual value may be higher or lower  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit                |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| µg/kg = micrograms per kilogram   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| µg/kg = micrograms per kilogram   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| CLP = Contract Laboratory Program   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| HQ = Hazard Quotient  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| NL = No listed value  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| PAH = polycyclic aromatic hydrocarbon   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| Q = Qualifier   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| SIM = selective ion monitoring  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| SVOC = semivolatile organic compound  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| TR = Target Risk  |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |
| VOC = volatile organic compound   |                                   |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |            |  |               |  |               |  |            |  |

Table 8  
Norwood Landfill  
Residential Soil Sample  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-169 |   | NLR-SS-169 |   | NLR-CS-170 |   | NLR-SS-170 |     |
|---|-----------------------------------|------------|---|------------|---|------------|---|------------|-----|
|   |                                   | MCOBF2     |   | MCOBF3     |   | MCOBJ0     |   | MCOBJ1     |     |
|   |                                   | µg/kg      |   | µg/kg      |   | µg/kg      |   | µg/kg      |     |
|   |                                   | 11/11/2020 |   | 11/11/2020 |   | 12/2/2020  |   | 12/2/2020  |     |
|   |                                   | 0-0.5      |   | 0-0.5      |   | 0-0.5      |   | 0-0.5      |     |
| Field   |                                   | Field      |   | Field      |   | Field      |   |            |     |
| VOC   |                                   | Result     | Q | Result     | Q | Result     | Q | Result     | Q   |
| 2-Butanone  | 2700000                           |            |   | 13         | U |            |   | 14         | U   |
| 2-Hexanone  | 20000                             |            |   | 13         | U |            |   | 14         | U   |
| 4-Methyl-2-pentanone  | 3300000                           |            |   | 13         | U |            |   | 14         | U   |
| Acetone   | 6100000                           |            |   | 3.8        | J |            |   | 14         | U   |
| Chloroform  | 320                               |            |   | 6.4        | U |            |   | 6.8        | U   |
| Methyl Acetate  | 7800000                           |            |   | 6.4        | U |            |   | 6.8        | U   |
| Methylene chloride  | 35000                             |            |   | 7.3        |   |            |   | 10         |     |
| Tetrachloroethene   | 8100                              |            |   | 6.4        | U |            |   | 6.8        | U   |
| Toluene   | 490000                            |            |   | 6.4        | U |            |   | 6.8        | U   |
| Vinyl chloride  | 95                                |            |   | 6.4        | U |            |   | 6.8        | U   |
| <b>PAH SIM</b>  |                                   |            |   |            |   |            |   |            |     |
| 2-Methylnaphthalene   | 24000                             |            |   | 2.7        | J |            |   | 18         | 1.3 |
| Acenaphthene  | 360000                            |            |   | 3.7        | J |            |   | 72         | 2.8 |
| Acenaphthylene  | NL                                |            |   | 1.9        | J |            |   | 5.7        | 3.9 |
| Anthracene  | 1800000                           |            |   | 8.3        |   |            |   | 120        | 6.8 |
| Benzo(a)anthracene  | 1100                              |            |   | 57         |   |            |   | 520        | 60  |
| Benzo(a)pyrene  | 110                               |            |   | 63         |   |            |   | 460        | 64  |
| Benzo(b)fluoranthene  | 1100                              |            |   | 85         |   |            |   | 660        | 110 |
| Benzo(g,h,i)perylene  | NL                                |            |   | 56         |   |            |   | 190        | 31  |
| Benzo(k)fluoranthene  | 110000                            |            |   | 37         |   |            |   | 250        | 32  |
| Chrysene  | 110000                            |            |   | 66         |   |            |   | 520        | 87  |
| Dibenzo(a,h)anthracene  | 110                               |            |   | 15         |   |            |   | 72         | 11  |
| Fluoranthene  | 240000                            |            |   | 87         |   |            |   | 1100       | 140 |
| Fluorene  | 240000                            |            |   | 2.5        | J |            |   | 70         | 3.2 |
| Indeno(1,2,3-cd)pyrene  | 1100                              |            |   | 48         |   |            |   | 210        | 33  |
| Naphthalene   | 2000                              |            |   | 3          | J |            |   | 22         | 1.5 |
| Pentachlorophenol   | 1000                              |            |   | 8.8        | U |            |   | 9.3        | 9.3 |
| Phenanthrene  | NL                                |            |   | 42         |   |            |   | 890        | 63  |
| Pyrene  | 180000                            |            |   | 89         |   |            |   | 1000       | 140 |
| <b>SVOCs</b>  |                                   |            |   |            |   |            |   |            |     |
| 1,1-Biphenyl  | 4700                              | 220        | U | 220        | U | 240        | U | 240        | U   |
| 2-Methylnaphthalene   | 24000                             | 220        | U | 220        | U | 240        | U | 240        | U   |
| Acenaphthene  | 360000                            | 81         | J | 220        | U | 83         | + | 240        | U   |
| Acenaphthylene  | NL                                | 220        | U | 220        | U | 240        | U | 240        | U   |
| Acetophenone  | 780000                            | 430        | U | 430        | U | 100        | J | 460        | U   |
| Anthracene  | 1800000                           | 430        |   | 220        | U | 110        | J | 240        | U   |
| Benzo(a)anthracene  | 1100                              | 2400       |   | 68         | J | 560        |   | 69         | J   |
| Benzo(a)pyrene  | 110                               | 2400       |   | 78         | J | 500        |   | 70         | J   |
| Benzo(b)fluoranthene  | 1100                              | 3200       |   | 81         | J | 720        |   | 98         | J   |
| Benzo(g,h,i)perylene  | NL                                | 1700       |   | 59         | J | 270        |   | 240        | U   |
| Benzo(k)fluoranthene  | 11000                             | 1200       |   | 69         | J | 240        |   | 240        | U   |
| Bis(2-ethylhexyl)phthalate  | 39000                             | 150        | J | 200        | J | 79         | J | 53         | J   |
| Butylbenzylphthalate  | 290000                            | 220        | U | 57         | J | 240        | U | 240        | U   |
| Carbazole   | NL                                | 180        | J | 430        | U | 83         | J | 460        | U   |
| Chrysene  | 110000                            | 2700       |   | 70         | J | 630        |   | 83         | J   |
| Dibenzo(a,h)anthracene  | 110                               | 470        |   | 220        | U | 100        | J | 240        | U   |
| Dibenzofuran  | 7800                              | 220        | U | 220        | U | 72         | J | 240        | U   |
| Dimethylphthalate   | NL                                | 460        |   | 450        |   | 200        | J | 160        | J   |
| Di-n-butylphthalate   | 630000                            | 220        | U | 220        | U | 240        | U | 240        | U   |
| Di-n-octyl phthalate  | 63000                             | 430        | U | 430        | U | 460        | U | 460        | U   |
| Fluoranthene  | 240000                            | 4300       |   | 110        | J | 1300       |   | 160        | J   |
| Fluorene  | 240000                            | 94         | J | 220        | U | 84         | J | 240        | U   |
| Indeno(1,2,3-cd)pyrene  | 1100                              | 1500       |   | 55         | J | 280        |   | 240        | U   |
| Naphthalene   | 2000                              | 220        | U | 220        | U | 240        | U | 240        | U   |
| Pentachlorophenol   | 1000                              | 430        | U | 430        | U | 460        | U | 460        | U   |
| Phenanthrene  | NL                                | 2000       |   | 46         | J | 1000       |   | 66         | J   |
| Phenol  | 1900000                           | 430        | U | 430        | U | 130        | J | 150        | J   |
| Pyrene  | 180000                            | 4200       |   | 110        | J | 970        |   | 110        | J   |

Notes:

- Composite samples were not analyzed for VOCs.
- Samples CS-116, CS-140, and CS-169 were not analyzed for PAHs by SIM due to elevated PAHs detected during routine SVOC
- Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)
- Bold values indicate exceedance of residential RSL
- Red values indicate 3x background values (or above background RDL if background is non-detect)
- Unshaded columns are grab surface soil samples
- Gray shaded columns are composite surface soil samples
- Orange shaded columns are shallow subsurface soil samples
- Green shaded columns are deep subsurface soil samples

µg/kg = micrograms per kilogram  
 J = Reported value is estimated; actual value may be higher or lower  
 NL = No listed value  
 Q = Qualifier  
 U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  
 VOC = volatile organic compound  
 PAH = polycyclic aromatic hydrocarbon  
 SVOC = semivolatile organic compound

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-101 | NLR-SS-101 | NLR-CS-102 | NLR-SS-102 | NLR-CS-103 | NLR-DB-103 | NLR-SB-103 | NLR-SS-103 |   |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| CLP Sample Number:           |                                   | MC0B32     | MC0AW4     | MC0B33     | MC0AW5     | MC0B34     | MC0BD3     | MC0BA1     | MC0AW6     |   |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |   |
| Sample Date:                 |                                   | 11/10/2020 | 11/10/2020 | 11/11/2020 | 11/11/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  |   |
| Sample Depth (feet):         |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-6        |   |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |   |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q |
| Aroclor-1248                 | 230                               | 44 U       | 41 U       | 43 U       | 43 U       | 44 U       | 41 U       | 39 U       | 44 U       |   |
| Aroclor-1254                 | 120                               | 44 U       | 41 U       | 43 U       | 43 U       | 44 U       | 41 U       | 39 U       | 44 U       |   |
| Aroclor-1260                 | 240                               | 44 U       | 41 U       | 43 U       | 43 U       | 44 U       | 41 U       | 39 U       | 44 U       |   |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |   |
| 4,4-DDD                      | 190                               | 0.37 J     | 4 UJ       | 4.3 U      | 4.3 U      | 4.4 U      | 4.1 U      | 3.9 U      | 4.4 U      |   |
| 4,4-DDE                      | 2000                              | 3 J        | 4 UJ       | 46         | 14         | 0.38 J     | 4.1 U      | 3.9 U      | 4.4 U      |   |
| 4,4-DDT                      | 1900                              | 0.99 J     | 4 UJ       | 24         | 5.7        | 1.1 J      | 4.1 U      | 3.9 U      | 4.4 U      |   |
| Aldrin                       | 39                                | 0.8 J      | 2.1 UJ     | 2.2 U      | 2.2 U      | 11         | 2.1 U      | 2 U        | 2.3 U      |   |
| cis-Chlordane <sup>1</sup>   | 1700                              | 0.4 J      | 2.1 UJ     | 43 J       | 12 R       | 2.3 U      | 2.1 U      | 2 U        | 2.3 U      |   |
| delta-BHC                    | NL                                | 2.3 UJ     | 2.1 UJ     | 2.2 U      | 2.2 U      | 2.3 U      | 2.1 U      | 2 U        | 2.3 U      |   |
| Dieldrin                     | 34                                | 30 J-      | 4 UJ       | 4.8 J      | 2.9 J      | 4.4 U      | 4.1 U      | 3.9 U      | 4.4 U      |   |
| Endosulfan II <sup>2</sup>   | 4700                              | 1.6 J      | 4 UJ       | 0.99 J     | 0.93 J     | 4.4 U      | 4.1 U      | 3.9 U      | 0.26 J     |   |
| Endosulfan Sulfate           | 38000                             | 4.4 UJ     | 4 UJ       | 1.2 J      | 0.43 J     | 4.4 U      | 4.1 U      | 3.9 U      | 4.4 U      |   |
| Endrin                       | 1900                              | 4.4 UJ     | 4 UJ       | 4.3 U      | 4.3 U      | 4.4 U      | 4.1 U      | 3.9 U      | 4.4 U      |   |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.4 UJ     | 4 UJ       | 4.3 U      | 4.3 U      | 4.4 U      | 4.1 U      | 3.9 U      | 4.4 U      |   |
| gamma-BHC (Lindane)          | 570                               | 2.3 UJ     | 2.1 UJ     | 1.8 J      | 0.49 J     | 2.3 U      | 2.1 U      | 2 U        | 2.3 U      |   |
| Heptachlor                   | 130                               | 2.3 UJ     | 2.1 UJ     | 2.2        | 0.55 J     | 2.3 U      | 2.1 U      | 2 U        | 2.3 U      |   |
| Heptachlor epoxide           | 70                                | 2.3 UJ     | 2.1 UJ     | 4.7 J      | 6.6 J      | 2.3 U      | 2.1 U      | 2 U        | 2.3 U      |   |
| Methoxychlor                 | 32000                             | 23 UJ      | 21 UJ      | 22 U       | 22 U       | 23 U       | 21 U       | 20 U       | 23 U       |   |
| trans-Chlordane <sup>1</sup> | 1700                              | 0.54 J     | 2.1 UJ     | 34 J       | 7.5 R      | 2.3 U      | 2.1 U      | 2 U        | 2.3 U      |   |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk



Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | CLP Sample Number: | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-104 | NLR-SS-104 | NLR-CS-104-01 | NLR-SS-104-01 | NLR-CS-105 | NLR-SS-105 | NLR-CS-106 | NLR-SS-106 | NLR-CS-107 | NLR-SB-107 | NLR-SS-107 |
|------------------------------|--------------------|-----------------------------------|------------|------------|---------------|---------------|------------|------------|------------|------------|------------|------------|------------|
|                              |                    |                                   | MC0B35     | MC0AW7     | MC0BE9        | MC0BF0        | MC0B36     | MC0AW8     | MC0B37     | MC0AW9     | MC0B38     | MC0BA2     | MC0AX0     |
| Units:                       |                    |                                   | µg/kg      | µg/kg      | µg/kg         | µg/kg         | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                    |                                   | 11/10/2020 | 11/10/2020 | 11/10/2020    | 11/10/2020    | 11/10/2020 | 11/10/2020 | 11/12/2020 | 11/12/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020 |
| Sample Depth:                |                    |                                   | 0-0.5      | 0-0.5      | 0-0.5         | 0-0.5         | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |
| Sample Type:                 |                    |                                   | Field      | Field      | Duplicate     | Duplicate     | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          |                    |                                   | Result Q   | Result Q   | Result Q      | Result Q      | Result Q   | Result Q   | Result Q   | Result Q   | Result Q   | Result Q   | Result Q   |
| Aroclor-1248                 | 230                |                                   | 46 U       | 48 U       | 47 U          | 55 U          | 53 U       | 50 U       | 47 U       | 42 U       | 44 U       | 44 U       | 45 U       |
| Aroclor-1254                 | 120                |                                   | 46 U       | 48 U       | 47 U          | 55 U          | 53 U       | 50 U       | 47 U       | 42 U       | 44 U       | 44 U       | 45 U       |
| Aroclor-1260                 | 240                |                                   | 46 U       | 48 U       | 47 U          | 55 U          | 53 U       | 50 U       | 47 U       | 42 U       | 44 U       | 44 U       | 45 U       |
| <b>Pesticides</b>            |                    |                                   |            |            |               |               |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                |                                   | 4.6 U      | 4.7 UJ     | 4.7 U         | 5.5 U         | 5.3 U      | 5 UJ       | 4.7 U      | 4.2 U      | 4.4 U      | 4.4 U      | 4.5 U      |
| 4,4-DDE                      | 2000               |                                   | 23         | 16 J-      | 24            | 9.1 J         | 1.8 J      | 1.9 J      | 1.2 J      | 5.8        | 0.43 J     | 4.4 U      | 4.5 U      |
| 4,4-DDT                      | 1900               |                                   | 43         | 7 J        | 49            | 5.9 J         | 61 J       | 1.2 J      | 0.71 J     | 3.7 J      | 0.91 J     | 4.4 U      | 4.5 U      |
| Aldrin                       | 39                 |                                   | 2.4 U      | 2.4 UJ     | 2.4 U         | 2.8 U         | 2.7 U      | 2.6 UJ     | 2.4 U      | 2.2 U      | 2.3 U      | 2.3 U      | 2.3 U      |
| cis-Chlordane <sup>1</sup>   | 1700               |                                   | 66 J       | 450 J      | 110 J         | 280 J         | 74 J       | 16 J       | 0.89 J     | 7.6 J      | 0.43 J     | 2.3 U      | 2.3 U      |
| delta-BHC                    | NL                 |                                   | 2.4 U      | 2 J        | 2.4 U         | 2.8 U         | 2.7 U      | 2.6 UJ     | 2.4 U      | 2.2 U      | 2.3 U      | 2.3 U      | 2.3 U      |
| Dieldrin                     | 34                 |                                   | 4.6 U      | 4.7 UJ     | 4.7 U         | 5.5 U         | 5.3 U      | 5 UJ       | 4.7 U      | 0.84 J     | 4.4 U      | 4.4 U      | 4.5 U      |
| Endosulfan II <sup>2</sup>   | 4700               |                                   | 5.1 R      | 13 R       | 4.8 R         | 9.5 R         | 1.8 J      | 1.5 J      | 4.7 U      | 0.26 J     | 4.4 U      | 4.4 U      | 4.5 U      |
| Endosulfan Sulfate           | 38000              |                                   | 4.6 U      | 2.4 J      | 4.7 U         | 1.5 J         | 0.46 J     | 1.1 J      | 4.7 U      | 4.2 U      | 4.4 U      | 4.4 U      | 4.5 U      |
| Endrin                       | 1900               |                                   | 4.6 U      | 4.7 UJ     | 4.7 U         | 5.5 U         | 5.3 U      | 5 UJ       | 4.7 U      | 4.2 U      | 4.4 U      | 4.4 U      | 4.5 U      |
| Endrin ketone <sup>3</sup>   | 1900               |                                   | 4.6 U      | 4.7 UJ     | 4.7 U         | 5.5 U         | 5.3 U      | 5 UJ       | 4.7 U      | 4.2 U      | 4.4 U      | 4.4 U      | 4.5 U      |
| gamma-BHC (Lindane)          | 570                |                                   | 2.4 U      | 2.4 UJ     | 2.4 U         | 2.8 U         | 2.7        | 2.6 UJ     | 2.4 U      | 1.1 J      | 2.3 U      | 2.3 U      | 2.3 U      |
| Heptachlor                   | 130                |                                   | 0.33 J     | 15 J       | 1.4 J         | 3.5           | 19 J       | 2.6 UJ     | 2.4 U      | 2.2 U      | 2.3 U      | 2.3 U      | 2.3 U      |
| Heptachlor epoxide           | 70                 |                                   | 5.1 J      | 48 R       | 8 J           | 32 J          | 7.8 R      | 2.8 J      | 2.4 U      | 1.7 J      | 0.8 J      | 2.3 U      | 2.3 U      |
| Methoxychlor                 | 32000              |                                   | 24 U       | 25 UJ      | 24 U          | 28 U          | 27 U       | 26 UJ      | 25 U       | 22 U       | 23 U       | 23 U       | 23 U       |
| trans-Chlordane <sup>1</sup> | 1700               |                                   | 50 J       | 380 J      | 83 J          | 200 J         | 77 J       | 13 J       | 0.7 J      | 7 J        | 0.54 J     | 2.3 U      | 2.3 U      |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-108 | NLR-SB-108 | NLR-SS-108 | NLR-CS-109 | NLR-SS-109 | NLR-CS-110 | NLR-DB-110 | NLR-SB-110 | NLR-SS-110 | NLR-CS-111 | NLR-SB-111 | NLR-SS-111 |   |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| CLP Sample Number:           |                                   | MC0B39     | MC0BA3     | MC0AX1     | MC0B40     | MC0AX2     | MC0B41     | MC0BD4     | MC0BA4     | MC0AX3     | MC0B42     | MC0BA5     | MC0AX4     |   |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |   |
| Sample Date:                 |                                   | 11/17/2020 | 11/17/2020 | 11/17/2020 | 11/10/2020 | 11/10/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  | 11/17/2020 | 11/17/2020 | 11/17/2020 |   |
| Sample Depth:                |                                   | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |   |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |   |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q |
| Aroclor-1248                 | 230                               | 46 U       | 40 U       | 45 U       | 44 U       | 40 U       | 44 U       | 39 U       | 39 U       | 45 U       | 44 U       | 42 U       | 43 U       |   |
| Aroclor-1254                 | 120                               | 46 U       | 40 U       | 45 U       | 44 U       | 40 U       | 44 U       | 39 U       | 39 U       | 43 J       | 44 U       | 42 U       | 43 U       |   |
| Aroclor-1260                 | 240                               | 46 U       | 40 U       | 45 U       | 44 U       | 40 U       | 44 U       | 39 U       | 39 U       | 45 U       | 44 U       | 42 U       | 43 U       |   |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |            |   |
| 4,4-DDD                      | 190                               | 4.6 U      | 4 U        | 4.5 U      | 0.56 J     | 0.88 J     | 4.4 U      | 3.9 U      | 3.9 U      | 4.5 UJ     | 4.4 UJ     | 4.2 UJ     | 4.3 U      |   |
| 4,4-DDE                      | 2000                              | 4.6 U      | 4 U        | 4.5 U      | 2.3 J      | 3.1 J      | 0.6 J      | 3.9 U      | 0.3 J      | 0.62 J     | 4.4 UJ     | 0.38 J     | 0.74 J     |   |
| 4,4-DDT                      | 1900                              | 4.6 U      | 4 U        | 4.5 U      | 4.1 J      | 3.3 J      | 0.36 J     | 3.9 U      | 3.9 U      | 0.62 J     | 0.4 J      | 0.43 J     | 0.55 J     |   |
| Aldrin                       | 39                                | 2.4 U      | 2 U        | 2.3 U      | 2.3 U      | 2.1 U      | 2.3 U      | 2 U        | 2 U        | 2.3 UJ     | 2.2 UJ     | 2.1 UJ     | 2.2 U      |   |
| cis-Chlordane <sup>1</sup>   | 1700                              | 2.4 U      | 2 U        | 2.3 U      | 0.78 J     | 2.1 U      | 2.3 U      | 2 U        | 2 U        | 2.3 UJ     | 4.6 J      | 5.3 J      | 2.2 U      |   |
| delta-BHC                    | NL                                | 2.4 U      | 2 U        | 2.3 U      | 2.3 U      | 2.1 U      | 2.3 U      | 2 U        | 2 U        | 2.3 UJ     | 2.2 UJ     | 2.1 UJ     | 2.2 U      |   |
| Dieldrin                     | 34                                | 4.6 U      | 4 U        | 4.5 U      | 4.4 U      | 4 U        | 4.4 U      | 3.9 U      | 3.9 U      | 4.5 UJ     | 4.4 UJ     | 4.2 UJ     | 4.3 U      |   |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.6 U      | 4 U        | 0.56 J     | 4.4 U      | 2.6 J      | 4.4 U      | 3.9 U      | 3.9 U      | 4.5 UJ     | 4.4 UJ     | 4.2 UJ     | 0.28 J     |   |
| Endosulfan Sulfate           | 38000                             | 4.6 U      | 4 U        | 4.5 U      | 4.4 U      | 4 U        | 4.4 U      | 3.9 U      | 3.9 U      | 4.5 UJ     | 4.4 UJ     | 4.2 UJ     | 4.3 U      |   |
| Endrin                       | 1900                              | 4.6 U      | 4 U        | 4.5 U      | 4.4 U      | 4 U        | 4.4 U      | 3.9 U      | 3.9 U      | 4.5 UJ     | 4.4 UJ     | 4.2 UJ     | 4.3 U      |   |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.6 U      | 4 U        | 4.5 U      | 4.4 U      | 4 U        | 4.4 U      | 3.9 U      | 3.9 U      | 4.5 UJ     | 4.4 UJ     | 4.2 UJ     | 4.3 U      |   |
| gamma-BHC (Lindane)          | 570                               | 2.4 U      | 2 U        | 2.3 U      | 2.3 J      | 2.5 J      | 2.3 U      | 2 U        | 0.24 J     | 2.3 UJ     | 2.2 UJ     | 2.1 UJ     | 0.23 J     |   |
| Heptachlor                   | 130                               | 2.4 U      | 2 U        | 2.3 U      | 2.3 U      | 2.1 U      | 2.3 U      | 2 U        | 2 U        | 2.3 UJ     | 2.2 UJ     | 2.1 UJ     | 2.2 U      |   |
| Heptachlor epoxide           | 70                                | 2.4 U      | 2 U        | 2.3 U      | 2.3 U      | 2.1 U      | 2.3 U      | 2 U        | 2 U        | 2.3 UJ     | 2.2 UJ     | 2.1 UJ     | 2.2 U      |   |
| Methoxychlor                 | 32000                             | 24 U       | 20 U       | 23 U       | 23 U       | 21 U       | 23 U       | 20 U       | 20 U       | 23 UJ      | 22 UJ      | 22 UJ      | 22 U       |   |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.4 U      | 2 U        | 2.3 U      | 0.87 J     | 2.1 U      | 2.3 U      | 2 U        | 2 U        | 2.3 UJ     | 3.3 J      | 3.9 J      | 2.2 U      |   |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type:<br>PCB | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-112 | NLR-SB-112 | NLR-SS-112 | NLR-CS-113 | NLR-SS-113 | NLR-CS-114 | NLR-SS-114 | NLR-CS-115 | NLR-DB-115 | NLR-SB-115 | NLR-SS-115 |   |        |   |
|--|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|--------|---|
|  |                                   | MC0B43     | MC0BA6     | MC0AX5     | MC0B44     | MC0AX6     | MC0B45     | MC0AX7     | MC0B46     | MC0BD5     | MC0BA7     | MC0AX8     |   |        |   |
|  |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |   |        |   |
|  |                                   | 11/17/2020 | 11/17/2020 | 11/17/2020 | 11/10/2020 | 11/10/2020 | 11/10/2020 | 11/10/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  |   |        |   |
| 0-0.5  |                                   | 2-4        |            | 0-0.5      |            | 0-0.5      |            | 0-0.5      |            | 8-10       |            | 2-4        |   | 0-0.5  |   |
| Field  |                                   | Field      |            | Field      |            | Field      |            | Field      |            | Field      |            | Field      |   | Field  |   |
| Result   | Q                                 | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q | Result | Q |
| Aroclor-1248   | 230                               | 45 U       | 41 U       | 45 U       | 43 U       | 42 U       | 43 U       | 43 U       | 46 U       | 37 U       | 42 U       | 44 U       |   |        |   |
| Aroclor-1254   | 120                               | 45 U       | 41 U       | 45 U       | 43 U       | 42 U       | 43 U       | 43 U       | 46 U       | 37 U       | 42 U       | 44 U       |   |        |   |
| Aroclor-1260   | 240                               | 45 U       | 41 U       | 45 U       | 43 U       | 42 U       | 43 U       | 43 U       | 46 U       | 37 U       | 42 U       | 44 U       |   |        |   |
| <b>Pesticides</b>  |                                   |            |            |            |            |            |            |            |            |            |            |            |   |        |   |
| 4,4-DDD  | 190                               | 4.5 UJ     | 4.1 U      | 4.5 U      | 4.3 U      | 4.2 U      | 4.3 U      | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| 4,4-DDE  | 2000                              | 1.7 J      | 4.1 U      | 0.28 J     | 0.56 J     | 0.41 J     | 0.55 J     | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| 4,4-DDT  | 1900                              | 1.5 J      | 4.1 U      | 0.33 J     | 2.3 J      | 0.74 J     | 4.3 U      | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| Aldrin   | 39                                | 2.3 UJ     | 2.1 U      | 2.3 U      | 2.2 U      | 2.1 U      | 1.5 J      | 2.2 U      | 2.4 UJ     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |
| cis-Chlordane <sup>1</sup>   | 1700                              | 0.56 J     | 2.1 U      | 2.3 U      | 0.39 J     | 0.25 J     | 20 J       | 2.2 U      | 0.41 J     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |
| delta-BHC  | NL                                | 2.3 UJ     | 2.1 U      | 2.3 U      | 2.2 U      | 2.1 U      | 2.2 U      | 2.2 U      | 2.4 UJ     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |
| Dieldrin   | 34                                | 0.46 J     | 4.1 U      | 4.5 U      | 33         | 0.58 J     | 160        | 5.3 J      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.5 UJ     | 4.1 U      | 4.5 U      | 4.3 U      | 4.2 U      | 1 J        | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| Endosulfan Sulfate   | 38000                             | 4.5 UJ     | 4.1 U      | 4.5 U      | 4.3 U      | 4.2 U      | 1.5 J      | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| Endrin   | 1900                              | 4.5 UJ     | 4.1 U      | 4.5 U      | 4.3 U      | 4.2 U      | 4.3 U      | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.5 UJ     | 4.1 U      | 4.5 U      | 4.3 U      | 4.2 U      | 4.3 U      | 4.3 U      | 4.6 UJ     | 3.7 U      | 4.2 U      | 4.4 U      |   |        |   |
| gamma-BHC (Lindane)  | 570                               | 2.3 UJ     | 2.1 U      | 2.3 U      | 2.2 U      | 2.1 U      | 1.1 J      | 2.2 U      | 2.4 UJ     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |
| Heptachlor   | 130                               | 2.3 UJ     | 2.1 U      | 2.3 U      | 2.2 U      | 2.1 U      | 2.2 U      | 2.2 U      | 2.4 UJ     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |
| Heptachlor epoxide   | 70                                | 2.3 UJ     | 2.1 U      | 2.3 U      | 2.2 U      | 2.1 U      | 2.2        | 2.2 U      | 2.4 UJ     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |
| Methoxychlor   | 32000                             | 23 UJ      | 21 U       | 23 U       | 22 U       | 21 U       | 22 U       | 22 U       | 24 UJ      | 19 U       | 22 U       | 23 U       |   |        |   |
| trans-Chlordane <sup>1</sup>   | 1700                              | 0.3 J      | 2.1 U      | 2.3 U      | 0.31 J     | 2.1 U      | 9.1 R      | 2.2 U      | 2.4 UJ     | 1.9 U      | 2.2 U      | 2.3 U      |   |        |   |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-116 | NLR-SS-116 | NLR-CS-117 | NLR-SB-117 | NLR-SS-117 | NLR-CS-117-01 | NLR-SB-117-01 | NLR-SS-117-01 | NLR-CS-118 | NLR-SB-118 | NLR-SS-118 |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|---------------|---------------|---------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MCOB47     | MCOAX9     | MCOB48     | MCOBA8     | MCOAY0     | MCOBG7        | MCOBG6        | MCOBG5        | MCOB49     | MCOBA9     | MCOAY2     |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg         | µg/kg         | µg/kg         | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                                   | 11/16/2020 | 11/16/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020    | 11/17/2020    | 11/17/2020    | 11/17/2020 | 11/17/2020 | 11/17/2020 |
| Sample Depth:                |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5         | 2-4           | 0-0.5         | 0-0.5      | 2-4        | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Duplicate     | Duplicate     | Duplicate     | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result        | Q             | Result        | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 47 U       | 44 U       | 45 UJ      | 40 U       | 47 U       | 44 U          | 39 U          | 47 U          | 47 U       | 40 U       | 45 U       |
| Aroclor-1254                 | 120                               | 47 U       | 44 U       | 45 UJ      | 40 U       | 47 U       | 44 U          | 39 U          | 47 U          | 47 U       | 40 U       | 45 U       |
| Aroclor-1260                 | 240                               | 47 U       | 44 U       | 45 UJ      | 40 U       | 47 U       | 44 U          | 39 U          | 47 U          | 47 U       | 40 U       | 45 U       |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |               |               |               |            |            |            |
| 4,4-DDD                      | 190                               | 4.6 U      | 4.4 UJ     | 4.5 U      | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 4.5 UJ     |
| 4,4-DDE                      | 2000                              | 2.7 J      | 4.4 UJ     | 0.89 J     | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 0.48 J     |
| 4,4-DDT                      | 1900                              | 3.9 J      | 4.4 UJ     | 0.47 J     | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 0.33 J     | 0.32 J     | 0.46 J     |
| Aldrin                       | 39                                | 2.4 U      | 2.3 UJ     | 2.3 U      | 2 U        | 2.4 U      | 2.3 UJ        | 2 U           | 2.4 UJ        | 2.4 UJ     | 2.1 U      | 2.3 UJ     |
| cis-Chlordane <sup>1</sup>   | 1700                              | 250 J      | 1 J        | 14 R       | 2 U        | 2.4 U      | 6.1 R         | 2 U           | 2.4 UJ        | 1.8 J      | 2.1 U      | 0.53 J     |
| delta-BHC                    | NL                                | 1.7 J      | 2.3 UJ     | 2.3 U      | 2 U        | 2.4 U      | 2.3 UJ        | 2 U           | 2.4 UJ        | 2.4 UJ     | 2.1 U      | 2.3 UJ     |
| Dieldrin                     | 34                                | 4.6 U      | 4.4 UJ     | 4.5 U      | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 4.5 UJ     |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.3 R      | 4.4 UJ     | 1.5 J      | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 4.5 UJ     |
| Endosulfan Sulfate           | 38000                             | 0.9 J      | 4.4 UJ     | 4.5 U      | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 4.5 UJ     |
| Endrin                       | 1900                              | 4.6 U      | 4.4 UJ     | 4.5 U      | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 4.5 UJ     |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.6 U      | 4.4 UJ     | 4.5 U      | 4 U        | 4.7 U      | 4.4 UJ        | 3.9 U         | 4.7 UJ        | 4.7 UJ     | 4 U        | 4.5 UJ     |
| gamma-BHC (Lindane)          | 570                               | 2.4 U      | 2.3 UJ     | 2.3 U      | 2 U        | 2.4 U      | 2.3 UJ        | 2 U           | 2.4 UJ        | 2.4 UJ     | 2.1 U      | 2.3 UJ     |
| Heptachlor                   | 130                               | 26         | 2.3 UJ     | 2.3 U      | 2 U        | 2.4 U      | 2.3 UJ        | 2 U           | 2.4 UJ        | 2.4 UJ     | 2.1 U      | 2.3 UJ     |
| Heptachlor epoxide           | 70                                | 9.5 R      | 2.3 UJ     | 0.83 J     | 2 U        | 2.4 U      | 0.31 J        | 2 U           | 2.4 UJ        | 0.43 J     | 2.1 U      | 2.3 UJ     |
| Methoxychlor                 | 32000                             | 24 U       | 23 UJ      | 23 UJ      | 20 U       | 24 U       | 23 UJ         | 20 U          | 24 UJ         | 24 UJ      | 21 U       | 23 UJ      |
| trans-Chlordane <sup>1</sup> | 1700                              | 230 J      | 0.44 J     | 4 R        | 2 U        | 2.4 U      | 1.1 J         | 2 U           | 2.4 UJ        | 0.5 J      | 2.1 U      | 0.35 J     |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

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Unshaded columns are grab surface soil samples

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Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-119 | NLR-DB-119 | NLR-SB-119 | NLR-SS-119 | NLR-CS-120 | NLR-SS-120 | NLR-CS-121 | NLR-DB-121 | NLR-SB-121 | NLR-SS-121 | NLR-SB-121-01 |            |   |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|------------|---|
| CLP Sample Number:           |                                   | MC0B50     | MC0BD6     | MC0BB0     | MC0AY1     | MC0B51     | MC0AY3     | MC0B52     | MC0BD7     | MC0BB1     | MC0AY4     | MC0BH5        |            |   |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg         | µg/kg      |   |
| Sample Date:                 |                                   | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  | 11/11/2020 | 11/11/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  | 11/18/2020    | 11/18/2020 |   |
| Sample Depth:                |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-0.5         | 2-4        |   |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field         | Duplicate  |   |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q             | Result     | Q |
| Aroclor-1248                 | 230                               | 45 U       | 41 U       | 41 U       | 46 U       | 40 U       | 40 U       | 45 UJ      | 36 U       | 39 U       | 46 UJ      | 41 U          |            |   |
| Aroclor-1254                 | 120                               | 45 U       | 41 U       | 41 U       | 46 U       | 40 U       | 40 U       | 45 UJ      | 36 U       | 39 U       | 46 UJ      | 41 U          |            |   |
| Aroclor-1260                 | 240                               | 45 U       | 41 U       | 41 U       | 46 U       | 40 U       | 40 U       | 45 UJ      | 36 U       | 39 U       | 46 UJ      | 41 U          |            |   |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |               |            |   |
| 4,4-DDD                      | 190                               | 0.7 J      | 4.1 U      | 4.1 U      | 4.6 U      | 4 U        | 4 U        | 4.5 U      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| 4,4-DDE                      | 2000                              | 37 J       | 4.1 U      | 4.1 U      | 4.6 U      | 13 R       | 25 R       | 0.34 J     | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| 4,4-DDT                      | 1900                              | 17 J       | 4.1 U      | 4.1 U      | 4.6 U      | 21 J       | 16 J       | 0.6 J      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| Aldrin                       | 39                                | 2.3 UJ     | 2.1 U      | 2.1 U      | 0.24 J     | 27 R       | 2.1 U      | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |
| cis-Chlordane <sup>1</sup>   | 1700                              | 11 J       | 2.1 U      | 2.1 U      | 2.6 R      | 2600 J     | 2600 J     | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |
| delta-BHC                    | NL                                | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 10 J       | 2.1 U      | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |
| Dieldrin                     | 34                                | 4.5 UJ     | 4.1 U      | 4.1 U      | 130        | 26 J       | 4 U        | 4.5 U      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.5 UJ     | 4.1 U      | 4.1 U      | 1.7 J      | 49 R       | 25 R       | 4.5 U      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| Endosulfan Sulfate           | 38000                             | 4.5 UJ     | 4.1 U      | 4.1 U      | 0.25 J     | 4 U        | 3.3 J      | 4.5 U      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| Endrin                       | 1900                              | 0.34 J     | 4.1 U      | 4.1 U      | 4.6 U      | 4 U        | 4 U        | 4.5 U      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.5 UJ     | 4.1 U      | 4.1 U      | 4.6 U      | 4 U        | 4 U        | 4.5 U      | 3.6 U      | 3.9 U      | 4.6 U      | 4.1 U         |            |   |
| gamma-BHC (Lindane)          | 570                               | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2.1 U      | 2.1 U      | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |
| Heptachlor                   | 130                               | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 33 J       | 39         | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |
| Heptachlor epoxide           | 70                                | 0.53 J     | 2.1 U      | 2.1 U      | 2.4 U      | 260 R      | 210 R      | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |
| Methoxychlor                 | 32000                             | 23 UJ      | 21 U       | 21 U       | 24 U       | 21 U       | 21 U       | 23 U       | 19 U       | 20 U       | 24 U       | 21 U          |            |   |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.4 R      | 2.1 U      | 2.1 U      | 5.4 R      | 2300 J     | 2300       | 2.3 U      | 1.9 U      | 2 U        | 2.4 U      | 2.1 U         |            |   |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

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Green shaded columns are deep subsurface soil samples

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R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-122 | NLR-SS-122 | NLR-CS-123 | NLR-SB-123 | NLR-SS-123 | NLR-CS-124 | NLR-SS-124 | NLR-CS-125 | NLR-SB-125 | NLR-SS-125 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MCOB53     | MCOAY5     | MCOB54     | MCOBB2     | MCOAY6     | MCOB55     | MCOAY7     | MCOB56     | MCOBB3     | MCOAY8     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |            |
| Sample Date:                 |                                   | 11/11/2020 | 11/11/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020 | 11/11/2020 | 11/11/2020 | 11/11/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 |
| Sample Depth:                |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 45 U       | 52 U       | 43 U       | 39 U       | 44 U       | 43 UJ      | 39 U       | 44 U       | 41 U       | 44 U       |            |
| Aroclor-1254                 | 120                               | 45 U       | 52 U       | 43 U       | 39 U       | 44 U       | 43 UJ      | 39 U       | 44 U       | 41 U       | 44 U       |            |
| Aroclor-1260                 | 240                               | 45 U       | 52 U       | 43 U       | 39 U       | 44 U       | 43 UJ      | 39 U       | 44 U       | 41 U       | 44 U       |            |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 1.3 J      | 5.2 U      | 4.3 UJ     | 3.9 U      | 4.4 U      | 4.3 U      | 3.9 U      | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| 4,4-DDE                      | 2000                              | 0.73 J     | 3.2 J      | 4.3 UJ     | 3.9 U      | 0.31 J     | 3.6 J      | 5.1        | 0.26 J     | 4 U        | 0.28 J     |            |
| 4,4-DDT                      | 1900                              | 1.2 J      | 0.55 J     | 4.3 UJ     | 3.9 U      | 4.4 U      | 4.5        | 4.6        | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| Aldrin                       | 39                                | 2.3 U      | 2.7 U      | 0.68 J     | 2 U        | 2.3 U      | 2.2 U      | 2 U        | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 4.3 R      | 4.2 J      | 2.2 UJ     | 2 U        | 2.3 U      | 6.3 J      | 4.3 J      | 1.7 J      | 2.1 U      | 2.3 UJ     |            |
| delta-BHC                    | NL                                | 2.3 U      | 2.7 U      | 2.2 UJ     | 2 U        | 2.3 U      | 2.2 U      | 2 U        | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Dieldrin                     | 34                                | 1.7 J      | 2.2 J      | 16 J       | 3.9 U      | 4.4 U      | 23         | 8.7        | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.5 U      | 0.29 J     | 4.3 UJ     | 3.9 U      | 4.4 U      | 2.4 J      | 0.6 J      | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| Endosulfan Sulfate           | 38000                             | 3.5 J      | 1.2 J      | 4.3 UJ     | 3.9 U      | 4.4 U      | 4.3 U      | 3.9 U      | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| Endrin                       | 1900                              | 4.5 U      | 5.2 U      | 4.3 UJ     | 3.9 U      | 4.4 U      | 4.3 U      | 3.9 U      | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.5 U      | 5.2 U      | 4.3 UJ     | 3.9 U      | 4.4 U      | 4.3 U      | 3.9 U      | 4.4 UJ     | 4 U        | 4.4 UJ     |            |
| gamma-BHC (Lindane)          | 570                               | 2.5 J      | 2.7 U      | 2.2 UJ     | 2 U        | 2.3 U      | 2.2 U      | 2 U        | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Heptachlor                   | 130                               | 2.3 U      | 2.7 U      | 2.2 UJ     | 2 U        | 2.3 U      | 2.2 U      | 2 U        | 0.32 J     | 2.1 U      | 2.3 UJ     |            |
| Heptachlor epoxide           | 70                                | 2.4 J      | 8.4        | 2.2 UJ     | 2 U        | 2.3 U      | 2.2 U      | 0.57 J     | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Methoxychlor                 | 32000                             | 23 U       | 27 U       | 22 UJ      | 20 U       | 23 U       | 22 U       | 20 U       | 23 UJ      | 21 U       | 23 UJ      |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 3.3 R      | 1.4 J      | 2.2 UJ     | 2 U        | 2.3 U      | 2.5 R      | 2.2 J      | 0.91 J     | 2.1 U      | 2.3 UJ     |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

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Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

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U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-126 | NLR-DB-126 | NLR-SB-126 | NLR-SS-126 | NLR-CS-127 | NLR-SS-127 | NLR-CS-128 | NLR-SB-128 | NLR-SS-128 |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MCOB57     | MCOBD8     | MCOBB4     | MCOAY9     | MCOB58     | MCOAZ0     | MCOB59     | MCOBB5     | MCOAZ1     |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                                   | 12/2/2020  | 11/18/2020 | 11/18/2020 | 12/2/2020  | 11/11/2020 | 11/11/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 |
| Sample Depth:                |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 46 UJ      | 46 U       | 38 U       | 43 UJ      | 43 U       | 42 U       | 42 U       | 41 U       | 42 U       |
| Aroclor-1254                 | 120                               | 46 UJ      | 46 U       | 38 U       | 43 UJ      | 43 U       | 42 U       | 42 U       | 41 U       | 42 U       |
| Aroclor-1260                 | 240                               | 46 UJ      | 46 U       | 38 U       | 43 UJ      | 43 U       | 42 U       | 42 U       | 540 J      | 42 U       |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.6 U      | 4.6 U      | 3.8 U      | 4.3 U      | 0.78 J     | 0.68 J     | 4.2 U      | 4.1 U      | 4.1 U      |
| 4,4-DDE                      | 2000                              | 1.3 J      | 4.6 U      | 3.8 U      | 4.3 U      | 1.5 J      | 4.3 U      | 0.39 J     | 5          | 0.8 J      |
| 4,4-DDT                      | 1900                              | 1.7 J      | 4.6 U      | 3.8 U      | 4.3 U      | 1.1 J      | 4.3 U      | 0.32 J     | 4.1 U      | 0.87 J     |
| Aldrin                       | 39                                | 2.4 U      | 2.4 U      | 2 U        | 2.2 U      | 2.2 U      | 2.2 U      | 2.2 U      | 2.1 U      | 2.1 U      |
| cis-Chlordane <sup>1</sup>   | 1700                              | 0.24 J     | 2.4 U      | 2 U        | 2.2 U      | 1 J        | 2.2 U      | 2.2 U      | 5.2 J      | 0.41 J     |
| delta-BHC                    | NL                                | 2.4 U      | 2.4 U      | 2 U        | 2.2 U      | 2.2 U      | 2.2 U      | 2.2 U      | 2.1 U      | 2.1 U      |
| Dieldrin                     | 34                                | 0.39 J     | 4.6 U      | 3.8 U      | 4.3 U      | 31         | 4.3 U      | 4.2 U      | 4.1 U      | 4.1 U      |
| Endosulfan II <sup>2</sup>   | 4700                              | 1.9 J      | 4.6 U      | 3.8 U      | 0.34 J     | 1.1 J      | 0.26 J     | 4.2 U      | 4.1 U      | 4.1 U      |
| Endosulfan Sulfate           | 38000                             | 4.6 U      | 4.6 U      | 3.8 U      | 4.3 U      | 4.3 U      | 4.3 U      | 4.2 U      | 4.1 U      | 4.1 U      |
| Endrin                       | 1900                              | 4.6 U      | 4.6 U      | 3.8 U      | 4.3 U      | 4.3 U      | 4.3 U      | 4.2 U      | 4.1 U      | 4.1 U      |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.6 U      | 4.6 U      | 3.8 U      | 4.3 U      | 4.3 U      | 4.3 U      | 4.2 U      | 4.1 U      | 4.1 U      |
| gamma-BHC (Lindane)          | 570                               | 2.4 U      | 2.4 U      | 2 U        | 2.2 U      | 0.56 J     | 2.2 U      | 2.2 U      | 2.1 U      | 2.1 U      |
| Heptachlor                   | 130                               | 2.4 U      | 2.4 U      | 2 U        | 2.2 U      | 2.2 U      | 2.2 U      | 2.2 U      | 2.1 U      | 2.1 U      |
| Heptachlor epoxide           | 70                                | 2.4 U      | 2.4 U      | 2 U        | 0.42 J     | 1.8 J      | 2.2 U      | 2.2 U      | 0.22 J     | 2.1 U      |
| Methoxychlor                 | 32000                             | 24 U       | 24 U       | 20 U       | 22 U       | 22 U       | 22 U       | 22 U       | 21 U       | 0.28 J     |
| trans-Chlordane <sup>1</sup> | 1700                              | 0.23 J     | 2.4 U      | 2 U        | 2.2 U      | 0.66 J     | 2.2 U      | 2.2 U      | 3.6 J      | 2.1 U      |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-129 | NLR-DB-129 | NLR-SB-129 | NLR-SS-129 | NLR-CS-130 | NLR-SB-130 | NLR-SS-130 | NLR-CS-131 | NLR-SB-131 | NLR-SS-131 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B60     | MC0BD9     | MC0BB6     | MC0AZ2     | MC0B61     | MC0BB7     | MC0AZ3     | MC0B62     | MC0BB8     | MC0AZ4     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                                   | 12/2/2020  | 11/19/2020 | 11/19/2020 | 12/2/2020  | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 |
| Sample Depth:                |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 44 U       | 37 U       | 38 U       | 47 UJ      | 45 U       | 40 U       | 40 U       | 44 U       | 41 U       | 44 U       |            |
| Aroclor-1254                 | 120                               | 44 U       | 37 U       | 38 U       | 47 UJ      | 45 U       | 40 U       | 40 U       | 44 U       | 41 U       | 6.2 J      |            |
| Aroclor-1260                 | 240                               | 44 U       | 37 U       | 38 U       | 47 UJ      | 45 U       | 40 U       | 11 J       | 44 U       | 41 U       | 44 U       |            |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.4 U      | 3.7 U      | 3.8 U      | 4.7 UJ     | 4.5 UJ     | 4 U        | 4 U        | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| 4,4-DDE                      | 2000                              | 5.5        | 3.7 U      | 3.8 U      | 0.33 J     | 1.7 J      | 4 U        | 0.97 J     | 4.4 UJ     | 4.1 U      | 0.5 J      |            |
| 4,4-DDT                      | 1900                              | 3.1 J      | 3.7 U      | 3.8 U      | 4.7 UJ     | 0.6 J      | 4 U        | 0.39 J     | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| Aldrin                       | 39                                | 0.89 J     | 1.9 U      | 2 U        | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 2.5 R      | 1.9 U      | 2 U        | 2.4 UJ     | 1.8 J      | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| delta-BHC                    | NL                                | 2.3 U      | 1.9 U      | 2 U        | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Dieldrin                     | 34                                | 4.4 U      | 3.7 U      | 3.8 U      | 4.7 UJ     | 4.5 UJ     | 4 U        | 4 U        | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.4 U      | 3.7 U      | 3.8 U      | 4.7 UJ     | 4.5 UJ     | 4 U        | 4 U        | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| Endosulfan Sulfate           | 38000                             | 4.4 U      | 3.7 U      | 3.8 U      | 4.7 UJ     | 4.5 UJ     | 4 U        | 4 U        | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| Endrin                       | 1900                              | 4.4 U      | 3.7 U      | 3.8 U      | 4.7 UJ     | 4.5 UJ     | 4 U        | 4 U        | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.4 U      | 3.7 U      | 3.8 U      | 4.7 UJ     | 4.5 UJ     | 4 U        | 4 U        | 4.4 UJ     | 4.1 U      | 4.4 UJ     |            |
| gamma-BHC (Lindane)          | 570                               | 2.3 U      | 1.9 U      | 2 U        | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Heptachlor                   | 130                               | 2.3 U      | 1.9 U      | 2 U        | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Heptachlor epoxide           | 70                                | 2.3 U      | 1.9 U      | 2 U        | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |
| Methoxychlor                 | 32000                             | 23 U       | 19 U       | 20 U       | 24 UJ      | 23 UJ      | 21 U       | 21 U       | 23 UJ      | 21 U       | 23 UJ      |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 0.62 J     | 1.9 U      | 2 U        | 2.4 UJ     | 0.75 J     | 2.1 U      | 2.1 U      | 2.3 UJ     | 2.1 U      | 2.3 UJ     |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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µg/kg = micrograms per kilogram

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HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk



Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-132 | NLR-SB-132 | NLR-SS-132 | NLR-CS-133 | NLR-SB-133 | NLR-SS-133 | NLR-CS-134 | NLR-SS-134 | NLR-CS-135 | NLR-SS-135 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B63     | MC0B69     | MCOAZ5     | MC0B64     | MC0BC0     | MCOAZ6     | MC0B65     | MCOAZ7     | MC0B66     | MCOAZ8     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                                   | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/11/2020 | 11/11/2020 | 11/11/2020 | 11/11/2020 | 11/11/2020 |
| Sample Depth:                |                                   | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 45 U       | 42 U       | 43 U       | 42 U       | 41 U       | 40 U       | 45 U       | 46 U       | 44 UJ      | 41 U       |            |
| Aroclor-1254                 | 120                               | 45 U       | 42 U       | 43 U       | 42 U       | 41 U       | 40 U       | 45 U       | 46 U       | 44 UJ      | 41 U       |            |
| Aroclor-1260                 | 240                               | 45 U       | 42 U       | 43 U       | 42 U       | 41 U       | 40 U       | 45 U       | 46 U       | 44 UJ      | 41 U       |            |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 4.2 UJ     | 4.1 U      | 4 UJ       | 4.5 U      | 4.6 U      | 4.4 UJ     | 4.1 U      |            |
| 4,4-DDE                      | 2000                              | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 0.43 J     | 4.1 U      | 4 UJ       | 2.2 J      | 2 J        | 3.1 J      | 1.5 J      |            |
| 4,4-DDT                      | 1900                              | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 0.33 J     | 4.1 U      | 4 UJ       | 1.8 J      | 0.9 J      | 2.4 J      | 1.6 J      |            |
| Aldrin                       | 39                                | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 2.2 UJ     | 2.1 U      | 2.1 UJ     | 2.3 U      | 2.4 U      | 2.3 UJ     | 5.1        |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 0.86 J     | 2.1 U      | 2.1 UJ     | 3.4 R      | 1.2 J      | 2.3 J      | 5.2 J      |            |
| delta-BHC                    | NL                                | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 2.2 UJ     | 2.1 U      | 2.1 UJ     | 2.3 U      | 2.4 U      | 2.3 UJ     | 2.1 U      |            |
| Dieldrin                     | 34                                | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 4.2 UJ     | 4.1 U      | 4 UJ       | 4.5 U      | 4.6 U      | 3.6 J      | 6.4        |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 4.2 UJ     | 4.1 U      | 4 UJ       | 4.5 U      | 4.6 U      | 0.92 J     | 0.47 J     |            |
| Endosulfan Sulfate           | 38000                             | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 4.2 UJ     | 4.1 U      | 4 UJ       | 4.5 U      | 4.6 U      | 4.4 UJ     | 4.1 U      |            |
| Endrin                       | 1900                              | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 4.2 UJ     | 4.1 U      | 4 UJ       | 4.5 U      | 4.6 U      | 4.4 UJ     | 4.1 U      |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.5 UJ     | 4.2 U      | 4.3 UJ     | 4.2 UJ     | 4.1 U      | 4 UJ       | 4.5 U      | 4.6 U      | 4.4 UJ     | 4.1 U      |            |
| gamma-BHC (Lindane)          | 570                               | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 2.2 UJ     | 2.1 U      | 2.1 UJ     | 2.3 U      | 2.4 U      | 2.3 UJ     | 0.24 J     |            |
| Heptachlor                   | 130                               | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 2.2 UJ     | 2.1 U      | 2.1 UJ     | 2.3 U      | 2.4 U      | 2.3 UJ     | 2.5        |            |
| Heptachlor epoxide           | 70                                | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 2.2 UJ     | 2.1 U      | 2.1 UJ     | 2.3 U      | 2.4 U      | 2.3 UJ     | 0.64 J     |            |
| Methoxychlor                 | 32000                             | 23 UJ      | 22 U       | 22 UJ      | 22 UJ      | 21 U       | 21 UJ      | 23 U       | 24 U       | 23 UJ      | 21 U       |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.3 UJ     | 2.2 U      | 2.2 UJ     | 0.48 J     | 2.1 U      | 2.1 UJ     | 2.1 J      | 0.31 J     | 2.1 J      | 6.1 J      |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-136 | NLR-DB-136 | NLR-SB-136 | NLR-SS-136 | NLR-CS-137 | NLR-SB-137 | NLR-SS-137 | NLR-CS-138 | NLR-SB-138 | NLR-SS-138 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B67     | MC0B60     | MC0B61     | MC0A29     | MC0B68     | MC0B62     | MC0B00     | MC0B69     | MC0B61     | MC0B01     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |            |
| Sample Date:                 |                                   | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/12/2020 | 11/18/2020 | 11/12/2020 |
| Sample Depth:                |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 47 U       | 39 U       | 41 U       | 46 U       | 41 U       | 41 U       | 41 U       | 41 U       | 43 U       | 42 U       | 41 U       |
| Aroclor-1254                 | 120                               | 47 U       | 39 U       | 41 U       | 46 U       | 41 U       | 41 U       | 41 U       | 41 U       | 43 U       | 42 U       | 41 U       |
| Aroclor-1260                 | 240                               | 47 U       | 39 U       | 41 U       | 46 U       | 41 U       | 41 U       | 41 U       | 41 U       | 43 U       | 42 U       | 41 U       |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.7 UJ     | 3.9 U      | 4.1 U      | 4.6 UJ     | 4.1 UJ     | 4.1 U      | 4.1 U      | 4.2 U      | 4.2 U      | 0.87 J     |            |
| 4,4-DDE                      | 2000                              | 4.7 UJ     | 3.9 U      | 4.1 U      | 0.8 J      | 4.1 UJ     | 4.1 U      | 4.1 U      | 1.3 R      | 4.2 U      | 0.53 J     |            |
| 4,4-DDT                      | 1900                              | 4.7 UJ     | 3.9 U      | 4.1 U      | 0.58 J     | 4.1 UJ     | 4.1 U      | 4.1 U      | 3.4 J      | 4.2 U      | 4.1 U      |            |
| Aldrin                       | 39                                | 2.4 UJ     | 2 U        | 2.1 U      | 2.4 UJ     | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.2 U      | 2.2 U      | 2.1 U      |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 1.4 J      | 2 U        | 2.1 U      | 14 J       | 2.1 UJ     | 2.1 U      | 2.1 U      | 190 J      | 2.9 J      | 7.4 J      |            |
| delta-BHC                    | NL                                | 2.4 UJ     | 2 U        | 2.1 U      | 2.4 UJ     | 2.1 UJ     | 2.1 U      | 2.1 U      | 1 J        | 2.2 U      | 2.1 U      |            |
| Dieldrin                     | 34                                | 4.7 UJ     | 3.9 U      | 4.1 U      | 4.6 UJ     | 4.1 UJ     | 4.1 U      | 4.1 U      | 4.2 U      | 4.2 U      | 4.1 U      |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 0.28 J     | 3.9 U      | 4.1 U      | 4.6 UJ     | 4.1 UJ     | 4.1 U      | 4.1 U      | 2 R        | 0.25 J     | 0.92 J     |            |
| Endosulfan Sulfate           | 38000                             | 0.37 J     | 3.9 U      | 4.1 U      | 4.6 UJ     | 4.1 UJ     | 4.1 U      | 4.1 U      | 0.74 J     | 4.2 U      | 4.1 U      |            |
| Endrin                       | 1900                              | 4.7 UJ     | 3.9 U      | 4.1 U      | 4.6 UJ     | 4.1 UJ     | 4.1 U      | 4.1 U      | 4.2 U      | 4.2 U      | 4.1 U      |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.7 UJ     | 3.9 U      | 4.1 U      | 4.6 UJ     | 4.1 UJ     | 4.1 U      | 4.1 U      | 4.2 U      | 4.2 U      | 4.1 U      |            |
| gamma-BHC (Lindane)          | 570                               | 2.4 UJ     | 2 U        | 2.1 U      | 2.4 UJ     | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.2 U      | 2.2 U      | 2.1 U      |            |
| Heptachlor                   | 130                               | 2.4 UJ     | 2 U        | 2.1 U      | 0.4 J      | 2.1 UJ     | 2.1 U      | 2.1 U      | 13         | 2.2 U      | 2.1 U      |            |
| Heptachlor epoxide           | 70                                | 0.99 J     | 2 U        | 2.1 U      | 3.4 R      | 2.1 UJ     | 2.1 U      | 2.1 U      | 21 R       | 0.44 J     | 1.2 J      |            |
| Methoxychlor                 | 32000                             | 24 UJ      | 20 U       | 21 U       | 0.44 J     | 21 UJ      | 21 U       | 21 U       | 22 U       | 22 U       | 21 U       |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 0.35 J     | 2 U        | 2.1 U      | 4 J        | 2.1 UJ     | 2.1 U      | 2.1 U      | 190 J      | 3.2        | 6.8 J      |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-139 | NLR-SB-139 | NLR-SS-139 | NLR-CS-140 | NLR-SS-140 | NLR-CS-141 | NLR-SB-141 | NLR-SS-141 | NLR-CS-141-01 | NLR-SB-141-01 | NLR-SS-141-01 |            |   |        |   |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|---------------|---------------|------------|---|--------|---|
| CLP Sample Number:           |                                   | MC0B70     | MC0B3      | MC0B02     | MC0B71     | MC0B03     | MC0B72     | MC0B4      | MC0B04     | MC0B4         | MC0B3         | MC0B2         |            |   |        |   |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg         | µg/kg         | µg/kg         | µg/kg      |   |        |   |
| Sample Date:                 |                                   | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/12/2020 | 11/12/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020 | 11/18/2020    | 11/18/2020    | 11/18/2020    | 11/18/2020 |   |        |   |
| Sample Depth:                |                                   | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5         | 0-0.5         | 2-4           | 0-0.5      |   |        |   |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field         | Duplicate     | Duplicate     | Duplicate  |   |        |   |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q             | Result        | Q             | Result     | Q | Result | Q |
| Aroclor-1248                 | 230                               | 47 U       | 41 U       | 44 U       | 48 U       | 47 UJ      | 43 U       | 41 U       | 40 U       | 45 U          | 41 U          | 40 U          |            |   |        |   |
| Aroclor-1254                 | 120                               | 47 U       | 41 U       | 44 U       | 48 U       | 47 UJ      | 20 J       | 41 U       | 47         | 30 J          | 41 U          | 73            |            |   |        |   |
| Aroclor-1260                 | 240                               | 47 U       | 41 U       | 44 U       | 48 U       | 47 UJ      | 43 U       | 41 U       | 40 U       | 24 J          | 41 U          | 40 U          |            |   |        |   |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |               |               |               |            |   |        |   |
| 4,4-DDD                      | 190                               | 4.7 UJ     | 4.1 U      | 4.4 U      | 0.96 J     | 4.7 UJ     | 4.3 U      | 4.1 U      | 4 U        | 4.5 UJ        | 4 U           | 4 U           |            |   |        |   |
| 4,4-DDE                      | 2000                              | 0.51 J     | 4.1 U      | 4.4 U      | 4.8 UJ     | 4.7 UJ     | 4.3 U      | 4.1 U      | 0.49 J     | 0.33 J        | 4 U           | 0.39 J        |            |   |        |   |
| 4,4-DDT                      | 1900                              | 4.7 UJ     | 4.1 U      | 4.4 U      | 4.8 UJ     | 4.7 UJ     | 4.3 U      | 4.1 U      | 7.4        | 4.5 UJ        | 4 U           | 6             |            |   |        |   |
| Aldrin                       | 39                                | 2.4 UJ     | 2.1 U      | 2.3 U      | 2.5 UJ     | 2.4 UJ     | 2.2 U      | 2.1 U      | 2.1 U      | 2.3 UJ        | 2.1 U         | 2.1 U         |            |   |        |   |
| cis-Chlordane <sup>1</sup>   | 1700                              | 0.26 J     | 2.1 U      | 0.28 J     | 2.5 UJ     | 2.4 UJ     | 0.91 J     | 2.1 U      | 2.1 U      | 3.5 J-        | 2.1 U         | 2.1 U         |            |   |        |   |
| delta-BHC                    | NL                                | 2.4 UJ     | 2.1 U      | 2.3 U      | 2.5 UJ     | 2.4 UJ     | 2.2 U      | 2.1 U      | 2.1 U      | 2.3 UJ        | 2.1 U         | 2.1 U         |            |   |        |   |
| Dieldrin                     | 34                                | 4.7 UJ     | 4.1 U      | 4.4 U      | 4.8 UJ     | 4.7 UJ     | 4.3 U      | 4.1 U      | 0.36 J     | 4.5 UJ        | 4 U           | 0.45 J        |            |   |        |   |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.7 UJ     | 4.1 U      | 4.4 U      | 4.8 UJ     | 0.48 J     | 1.1 J      | 4.1 U      | 4 U        | 4.5 UJ        | 4 U           | 4 U           |            |   |        |   |
| Endosulfan Sulfate           | 38000                             | 4.7 UJ     | 4.1 U      | 4.4 U      | 4.8 UJ     | 4.7 UJ     | 4.3 U      | 4.1 U      | 4 U        | 0.34 J        | 4 U           | 4 U           |            |   |        |   |
| Endrin                       | 1900                              | 4.7 UJ     | 4.1 U      | 4.4 U      | 4.8 UJ     | 4.7 UJ     | 4.3 U      | 4.1 U      | 1.2 J      | 0.38 J        | 4 U           | 1.2 J         |            |   |        |   |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.7 UJ     | 4.1 U      | 4.4 U      | 4.8 UJ     | 4.7 UJ     | 4.3 U      | 4.1 U      | 4 U        | 4.5 UJ        | 4 U           | 4 U           |            |   |        |   |
| gamma-BHC (Lindane)          | 570                               | 2.4 UJ     | 2.1 U      | 2.3 U      | 2.5 UJ     | 2.4 UJ     | 2.2 U      | 2.1 U      | 2.1 U      | 2.3 UJ        | 2.1 U         | 2.1 U         |            |   |        |   |
| Heptachlor                   | 130                               | 2.4 UJ     | 2.1 U      | 2.3 U      | 2.5 UJ     | 2.4 UJ     | 2.2 U      | 2.1 U      | 2.1 U      | 2.3 UJ        | 2.1 U         | 2.1 U         |            |   |        |   |
| Heptachlor epoxide           | 70                                | 2.4 UJ     | 2.1 U      | 2.3 U      | 2.5 UJ     | 2.4 UJ     | 2.2 U      | 2.1 U      | 2.1 U      | 2.3 UJ        | 2.1 U         | 2.1 U         |            |   |        |   |
| Methoxychlor                 | 32000                             | 24 UJ      | 21 U       | 23 U       | 25 UJ      | 24 UJ      | 22 U       | 21 U       | 21 U       | 23 UJ         | 21 U          | 21 U          |            |   |        |   |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.4 UJ     | 2.1 U      | 0.24 J     | 2.5 UJ     | 2.4 UJ     | 2.2 U      | 2.1 U      | 2.1 U      | 2.5 J-        | 2.1 U         | 2.1 U         |            |   |        |   |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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Orange shaded columns are shallow subsurface soil samples

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µg/kg = micrograms per kilogram

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HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-142 | NLR-SS-142 | NLR-CS-143 | NLR-DB-143 | NLR-SB-143 | NLR-SS-143 | NLR-CS-144 | NLR-SS-144 | NLR-CS-145 | NLR-SS-145 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B73     | MC0B05     | MC0B74     | MC0BE1     | MC0BC5     | MC0B06     | MC0B75     | MC0B07     | MC0B76     | MC0B08     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                                   | 11/12/2020 | 11/12/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/12/2020 | 11/12/2020 | 11/12/2020 | 11/12/2020 | 11/12/2020 |
| Sample Depth:                |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 47 U       | 46 U       | 44 U       | 41 U       | 41 U       | 43 U       | 47 U       | 44 U       | 48 U       | 48 U       |            |
| Aroclor-1254                 | 120                               | 47 U       | 46 U       | 20 J       | 41 U       | 41 U       | 43 U       | 47 U       | 44 U       | 48 U       | 48 U       |            |
| Aroclor-1260                 | 240                               | 47 U       | 46 U       | 44 U       | 41 U       | 41 U       | 43 U       | 47 U       | 44 U       | 48 U       | 48 U       |            |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.7 U      | 0.89 J     | 4.4 UJ     | 4.1 U      | 4.1 U      | 4.3 UJ     | 4.7 UJ     | 0.45 J     | 4.7 UJ     | 1.3 J      |            |
| 4,4-DDE                      | 2000                              | 1.1 J      | 1 J        | 1.2 J      | 4.1 U      | 4.1 U      | 0.43 J     | 0.4 J      | 3.5 J      | 0.55 R     | 2.3 J      |            |
| 4,4-DDT                      | 1900                              | 0.79 J     | 2 J        | 0.88 J     | 4.1 U      | 4.1 U      | 0.4 J      | 4.7 UJ     | 3.9 J      | 0.54 R     | 4.4 J      |            |
| Aldrin                       | 39                                | 2.4 U      | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 2.3 UJ     | 3.4 J      | 210        |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 6.7 J      | 1.4 J      | 0.24 J     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 0.31 J     | 0.87 J     | 2 J        |            |
| delta-BHC                    | NL                                | 2.4 U      | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 2.3 UJ     | 2.4 UJ     | 2.4 UJ     |            |
| Dieldrin                     | 34                                | 4.7 U      | 4.6 UJ     | 4.4 UJ     | 4.1 U      | 4.1 U      | 4.3 UJ     | 4.7 UJ     | 4.4 UJ     | 4.7 J      | 2900       |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.7 U      | 4.6 UJ     | 4.4 UJ     | 4.1 U      | 4.1 U      | 4.3 UJ     | 4.7 UJ     | 4.4 UJ     | 4.7 UJ     | 4.7 UJ     |            |
| Endosulfan Sulfate           | 38000                             | 4.7 U      | 4.6 UJ     | 4.4 UJ     | 4.1 U      | 4.1 U      | 4.3 UJ     | 4.7 UJ     | 4.4 UJ     | 4.7 UJ     | 4.7 UJ     |            |
| Endrin                       | 1900                              | 4.7 U      | 4.6 UJ     | 4.4 UJ     | 4.1 U      | 4.1 U      | 4.3 UJ     | 4.7 UJ     | 4.4 UJ     | 0.7 J      | 6.4 J      |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.7 U      | 4.6 UJ     | 4.4 UJ     | 4.1 U      | 4.1 U      | 4.3 UJ     | 4.7 UJ     | 4.4 UJ     | 4.7 UJ     | 30 J       |            |
| gamma-BHC (Lindane)          | 570                               | 2.4 U      | 1.5 J      | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 0.51 J     | 2.4 UJ     | 2.4 UJ     |            |
| Heptachlor                   | 130                               | 2.4 U      | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 2.3 UJ     | 2.4 UJ     | 2.4 UJ     |            |
| Heptachlor epoxide           | 70                                | 2.4 U      | 2.4 UJ     | 2.3 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 2.3 UJ     | 2.4 UJ     | 0.78 J     |            |
| Methoxychlor                 | 32000                             | 24 U       | 24 UJ      | 23 UJ      | 21 U       | 21 U       | 22 UJ      | 24 UJ      | 23 UJ      | 24 UJ      | 24 UJ      |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 2 J        | 1 J        | 0.41 J     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.4 UJ     | 2.3 UJ     | 0.67 J     | 1.9 J      |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-146 | NLR-DB-146 | NLR-SB-146 | NLR-SS-146 | NLR-DB-146-01 | NLR-CS-147 | NLR-DB-147 | NLR-SB-147 | NLR-SS-147 |        |       |
|------------------------------|-----------------------------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|--------|-------|
| CLP Sample Number:           |                                   | MCOB77     | MCOBE2     | MCOBC6     | MCOB09     | MCOBH7        | MCOB78     | MCOBE3     | MCOBC7     | MCOB10     |        |       |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg         | µg/kg      | µg/kg      | µg/kg      | µg/kg      |        |       |
| Sample Date:                 |                                   | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020    | 12/2/2020  | 11/19/2020 | 11/19/2020 | 12/2/2020  |        |       |
| Sample Depth:                |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 8-10          | 0-0.5      | 8-10       | 2-4        | 0-0.5      |        |       |
| Sample Type:                 |                                   | Field      | Field      | Field      | Field      | Field         | Field      | Field      | Field      | Field      |        |       |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q             | Result     | Q          | Result     | Q          | Result | Q     |
| Aroclor-1248                 | 230                               | 42 U       | 40 U       | 41 U       | 46 U       | 39 U          | 44 U       | 36 U       | 39 U       | 46 U       | 46 U   | 46 U  |
| Aroclor-1254                 | 120                               | 42 U       | 40 U       | 41 U       | 46 U       | 39 U          | 44 U       | 36 U       | 39 U       | 46 U       | 46 U   | 46 U  |
| Aroclor-1260                 | 240                               | 42 U       | 40 U       | 41 U       | 46 U       | 39 U          | 11 J       | 36 U       | 39 U       | 46 U       | 46 U   | 46 U  |
| <b>Pesticides</b>            |                                   |            |            |            |            |               |            |            |            |            |        |       |
| 4,4-DDD                      | 190                               | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 UJ     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| 4,4-DDE                      | 2000                              | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 0.63 J     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| 4,4-DDT                      | 1900                              | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 0.42 J     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| Aldrin                       | 39                                | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |
| cis-Chlordane <sup>1</sup>   | 1700                              | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |
| delta-BHC                    | NL                                | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |
| Dieldrin                     | 34                                | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 UJ     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 UJ     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| Endosulfan Sulfate           | 38000                             | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 UJ     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| Endrin                       | 1900                              | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 UJ     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.2 UJ     | 4 U        | 4.1 U      | 4.6 U      | 3.9 U         | 4.4 UJ     | 3.6 U      | 3.9 U      | 4.5 U      | 4.5 U  | 4.5 U |
| gamma-BHC (Lindane)          | 570                               | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |
| Heptachlor                   | 130                               | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |
| Heptachlor epoxide           | 70                                | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |
| Methoxychlor                 | 32000                             | 22 UJ      | 21 U       | 21 U       | 24 U       | 20 U          | 23 UJ      | 18 U       | 20 U       | 23 U       | 23 U   | 23 U  |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.1 UJ     | 2.1 U      | 2.1 U      | 2.4 U      | 2 U           | 2.3 UJ     | 1.8 U      | 2 U        | 2.3 U      | 2.3 U  | 2.3 U |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-148 | NLR-SS-148 | NLR-CS-148-01 | NLR-SS-148-01 | NLR-CS-149 | NLR-SS-149 | NLR-CS-150 | NLR-SS-150 | NLR-CS-151 | NLR-SS-151 | NLR-CS-152 | NLR-SS-152 |            |
|------------------------------|-----------------------------------|------------|------------|---------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B79     | MC0B11     | MC0B6         | MC0B7         | MC0B80     | MC0B12     | MC0B81     | MC0B13     | MC0B82     | MC0B14     | MC0B83     | MC0B15     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg         | µg/kg         | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |
| Sample Date:                 |                                   | 11/12/2020 | 11/12/2020 | 11/12/2020    | 11/12/2020    | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 |
| Sample Depth:                |                                   | 0-0.5      | 0-0.5      | 0-0.5         | 0-0.5         | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      |
| Sample Type:                 |                                   | Field      | Field      | Field         | Field         | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Field      |
| PCB                          | Result                            | Q          | Result     | Q             | Result        | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 42 U       | 42 U       | 42 U          | 42 U          | 46 U       | 44 U       | 45 U       | 48 U       | 45 U       | 43 U       | 46 U       | 55 U       |            |
| Aroclor-1254                 | 120                               | 42 U       | 42 U       | 42 U          | 42 U          | 46 U       | 44 U       | 45 U       | 48 U       | 45 U       | 43 U       | 45 J       | 55 U       |            |
| Aroclor-1260                 | 240                               | 42 U       | 42 U       | 42 U          | 42 U          | 46 U       | 44 U       | 21 J       | 48 U       | 45 U       | 43 U       | 46 U       | 55 U       |            |
| <b>Pesticides</b>            |                                   |            |            |               |               |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 1.8 J      | 4.2 U      | 4.2 U         | 4.2 U         | 4.6 UJ     | 4.4 UJ     | 4.5 UJ     | 4.8 UJ     | 4.5 UJ     | 4.3 U      | 4.5 UJ     | 5.5 U      |            |
| 4,4-DDE                      | 2000                              | 0.53 J     | 0.88 J     | 0.3 J         | 1 J           | 1.3 J      | 2 J        | 0.46 J     | 0.89 J     | 0.76 J     | 2.8 J      | 4.5 UJ     | 5.5 U      |            |
| 4,4-DDT                      | 1900                              | 1.1 J      | 1.1 J      | 4.2 U         | 1.7 J         | 0.63 J     | 0.97 J     | 0.33 J     | 0.75 J     | 0.67 J     | 2.1 J      | 4.5 UJ     | 5.5 U      |            |
| Aldrin                       | 39                                | 2.1 U      | 2.1 U      | 0.37 J        | 2.2 U         | 2.4 UJ     | 2.3 UJ     | 2.3 UJ     | 2.5 UJ     | 2.3 UJ     | 2.2 U      | 2.3 UJ     | 2.8 U      |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 2 J        | 0.49 J     | 0.84 J        | 0.54 J        | 7.1 J      | 9.4 J      | 2.3 UJ     | 2.5 UJ     | 23 J       | 170 J      | 2.3 UJ     | 2.8 U      |            |
| delta-BHC                    | NL                                | 2.1 U      | 2.1 U      | 2.2 U         | 2.2 U         | 2.4 UJ     | 2.3 UJ     | 2.3 UJ     | 2.5 UJ     | 2.3 UJ     | 0.93 J     | 2.3 UJ     | 2.8 U      |            |
| Dieldrin                     | 34                                | 4.2 U      | 4.2 U      | 4.4 J         | 4.2 U         | 3.2 J      | 0.23 R     | 4.5 UJ     | 4.8 UJ     | 4.5 UJ     | 4.3 U      | 4.5 UJ     | 5.5 U      |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.2 U      | 1.1 J      | 4.2 U         | 4.2 U         | 4.6 UJ     | 4.4 UJ     | 4.5 UJ     | 4.8 UJ     | 0.24 J     | 1.4 R      | 4.5 UJ     | 5.5 U      |            |
| Endosulfan Sulfate           | 38000                             | 4.2 U      | 4.2 U      | 4.2 U         | 4.2 U         | 4.6 UJ     | 4.4 UJ     | 4.5 UJ     | 4.8 UJ     | 4.5 UJ     | 0.87 J     | 4.5 UJ     | 5.5 U      |            |
| Endrin                       | 1900                              | 4.2 U      | 4.2 U      | 4.2 U         | 4.2 U         | 0.5 J      | 0.25 R     | 4.5 UJ     | 4.8 UJ     | 4.5 UJ     | 4.3 U      | 4.5 UJ     | 5.5 U      |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.2 U      | 4.2 U      | 4.2 U         | 4.2 U         | 4.6 UJ     | 4.4 UJ     | 4.5 UJ     | 4.8 UJ     | 4.5 UJ     | 4.3 U      | 4.5 UJ     | 5.5 U      |            |
| gamma-BHC (Lindane)          | 570                               | 3.4        | 2.1 U      | 0.45 J        | 2.2 U         | 2.4 UJ     | 2.3 UJ     | 2.3 UJ     | 2.5 UJ     | 2.3 UJ     | 2.2 U      | 2.3 UJ     | 2.8 U      |            |
| Heptachlor                   | 130                               | 2.1 U      | 2.1 U      | 2.2 U         | 2.2 U         | 2.4 UJ     | 2.3 UJ     | 2.3 UJ     | 2.5 UJ     | 5.6 J-     | 200        | 2.3 UJ     | 2.8 U      |            |
| Heptachlor epoxide           | 70                                | 2.1 U      | 0.76 J     | 2.2 U         | 2.2 U         | 0.76 J     | 2.3 UJ     | 2.3 UJ     | 2.5 UJ     | 5.1 J      | 59 J       | 2.3 UJ     | 2.8 U      |            |
| Methoxychlor                 | 32000                             | 22 UJ      | 22 UJ      | 22 U          | 22 U          | 24 UJ      | 23 UJ      | 23 UJ      | 25 UJ      | 23 UJ      | 22 U       | 23 UJ      | 28 U       |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 1.2 J      | 0.22 J     | 0.46 J        | 2.2 U         | 5.2 J      | 6.3 J      | 2.3 UJ     | 2.5 UJ     | 34 J       | 330        | 2.3 UJ     | 2.8 U      |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type:<br>PCB | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-153 | NLR-SS-153 | NLR-CS-154 | NLR-SS-154 | NLR-CS-155 | NLR-SS-155 | NLR-CS-100 | NLR-SB-100 | NLR-SS-100 |    |        |   |        |    |       |   |        |   |
|--|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----|--------|---|--------|----|-------|---|--------|---|
|  |                                   | MC0B84     | MC0B16     | MC0B85     | MC0B17     | MC0B86     | MC0B18     | MC0B31     | MC0BA0     | MC0AW3     |    |        |   |        |    |       |   |        |   |
|  |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |    |        |   |        |    |       |   |        |   |
|  |                                   | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/16/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020 |    |        |   |        |    |       |   |        |   |
| Field  |                                   | Field      |            | Field      |            | Field      |            | Background |            | Background |    |        |   |        |    |       |   |        |   |
| Result   | Q                                 | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q  |        |   |        |    |       |   |        |   |
| Aroclor-1248   | 230                               | 47 U       | U          | 46 U       | U          | 47 U       | U          | 50 U       | U          | 46 U       | U  | 47 U   | U | 50 U   | U  | 44 U  | U | 45 U   | U |
| Aroclor-1254   | 120                               | 150        |            | 46 U       | U          | 47 U       | U          | 50 U       | U          | 46 U       | U  | 47 U   | U | 50 U   | U  | 44 U  | U | 45 U   | U |
| Aroclor-1260   | 240                               | 47 U       | U          | 46 U       | U          | 47 U       | U          | 50 U       | U          | 46 U       | U  | 47 U   | U | 50 U   | U  | 44 U  | U | 12 J   | J |
| <b>Pesticides</b>  |                                   |            |            |            |            |            |            |            |            |            |    |        |   |        |    |       |   |        |   |
| 4,4-DDD  | 190                               | 4.7 UJ     | UJ         | 4.6 U      | U          | 4.7 UJ     | UJ         | 1.6 J      | J          | 4.6 UJ     | UJ | 4.6 U  | U | 1.1 J  | J  | 4.4 U | U | 4.5 U  | U |
| 4,4-DDE  | 2000                              | 1.1 J      | J          | 0.7 J      | J          | 0.93 J     | J          | 1.5 J      | J          | 2.7 J      | J  | 5.2    |   | 0.54 J | J  | 4.4 U | U | 1.3 J  | J |
| 4,4-DDT  | 1900                              | 0.89 J     | J          | 0.39 R     | R          | 0.6 J      | J          | 1.2 J      | J          | 2 J        | J  | 4.1 J  | J | 0.93 J | J  | 4.4 U | U | 4.5 U  | U |
| Aldrin   | 39                                | 2.4 UJ     | UJ         | 2.4 U      | U          | 2.4 UJ     | UJ         | 2.6 U      | U          | 2.3 UJ     | UJ | 2.4 U  | U | 2.6 UJ | UJ | 2.3 U | U | 2.3 U  | U |
| cis-Chlordane <sup>1</sup>   | 1700                              | 14 J       | J          | 4.5 J      | J          | 6.9 J      | J          | 20 J       | J          | 4 J        | J  | 2.6 R  | R | 0.94 J | J  | 2.3 U | U | 0.67 J | J |
| delta-BHC  | NL                                | 2.4 UJ     | UJ         | 2.4 U      | U          | 2.4 UJ     | UJ         | 2.6 U      | U          | 2.3 UJ     | UJ | 2.4 U  | U | 2.6 UJ | UJ | 2.3 U | U | 2.3 U  | U |
| Dieldrin   | 34                                | 1.3 J      | J          | 0.53 R     | R          | 4.7 UJ     | UJ         | 5 U        | U          | 0.28 J     | J  | 4.6 U  | U | 5 UJ   | UJ | 4.4 U | U | 0.84 J | J |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.7 UJ     | UJ         | 4.6 U      | U          | 4.7 UJ     | UJ         | 5 U        | U          | 4.6 UJ     | UJ | 4.6 U  | U | 5 UJ   | UJ | 4.4 U | U | 4.5 U  | U |
| Endosulfan Sulfate   | 38000                             | 4.7 UJ     | UJ         | 4.6 U      | U          | 4.7 UJ     | UJ         | 5 U        | U          | 4.6 UJ     | UJ | 4.6 U  | U | 5 UJ   | UJ | 4.4 U | U | 4.5 U  | U |
| Endrin   | 1900                              | 2.1 J      | J          | 0.35 J     | J          | 0.6 J      | J          | 0.93 R     | R          | 4.6 UJ     | UJ | 0.37 J | J | 5 UJ   | UJ | 4.4 U | U | 4.5 U  | U |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.7 UJ     | UJ         | 4.6 U      | U          | 4.7 UJ     | UJ         | 5 U        | U          | 4.6 UJ     | UJ | 4.6 U  | U | 5 UJ   | UJ | 4.4 U | U | 4.5 U  | U |
| gamma-BHC (Lindane)  | 570                               | 2.4 UJ     | UJ         | 2.4 U      | U          | 2.4 UJ     | UJ         | 2.6 U      | U          | 2.3 UJ     | UJ | 2.4 U  | U | 2.6 UJ | UJ | 2.3 U | U | 2.3 U  | U |
| Heptachlor   | 130                               | 1.6 J      | J          | 2.4 U      | U          | 2.4 UJ     | UJ         | 0.6 J      | J          | 0.95 J     | J  | 0.94 J | J | 2.6 UJ | UJ | 2.3 U | U | 2.3 U  | U |
| Heptachlor epoxide   | 70                                | 0.58 J     | J          | 0.63 J     | J          | 2.4 UJ     | UJ         | 2.2 J      | J          | 2.9 J-     | J- | 1.3 J  | J | 2.6 UJ | UJ | 2.3 U | U | 2.3 U  | U |
| Methoxychlor   | 32000                             | 24 UJ      | UJ         | 24 U       | U          | 24 UJ      | UJ         | 26 U       | U          | 23 UJ      | UJ | 24 U   | U | 26 UJ  | UJ | 23 U  | U | 23 U   | U |
| trans-Chlordane <sup>1</sup>   | 1700                              | 12 J       | J          | 2.3 R      | R          | 4.1 J      | J          | 15 J       | J          | 4.7 J      | J  | 2.2 J  | J | 0.95 J | J  | 2.3 U | U | 0.34 J | J |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

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Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

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R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-156 | NLR-DB-156 | NLR-SB-156 | NLR-SS-156 | NLR-CS-157 | NLR-SB-157 | NLR-SS-157 | NLR-CS-158 | NLR-SS-158 | NLR-CS-159 | NLR-SS-159 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B87     | MC0BE4     | MC0BC8     | MC0B19     | MC0B88     | MC0BC9     | MC0B20     | MC0B89     | MC0B21     | MC0B90     | MC0B22     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |            |
| Sample Date:                 |                                   | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 12/2/2020  | 12/2/2020  | 11/16/2020 | 11/16/2020 |
| Sample Depth:                |                                   | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      |
| Sample Type:                 | Background                        | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background |            |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |            |
| Aroclor-1248                 | 230                               | 44 U       | 39 U       | 39 U       | 47 U       | 42 U       | 41 U       | 42 U       | 43 U       | 41 U       | 46 U       | 46 U       |            |
| Aroclor-1254                 | 120                               | 44 U       | 39 U       | 39 U       | 47 U       | 42 U       | 41 U       | 42 U       | 43 U       | 41 U       | 12 J       | 46 U       |            |
| Aroclor-1260                 | 240                               | 44 U       | 39 U       | 39 U       | 47 U       | 42 U       | 41 U       | 42 U       | 43 U       | 41 U       | 46 U       | 46 U       |            |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 4.6 U      | 4.6 U      |            |
| 4,4-DDE                      | 2000                              | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 0.31 J     | 4.1 U      | 0.26 J     | 4.3 UJ     | 4 UJ       | 0.57 J     | 4.6 U      |            |
| 4,4-DDT                      | 1900                              | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 0.69 J     | 4.6 U      |            |
| Aldrin                       | 39                                | 2.2 UJ     | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 2.4 U      | 0.55 J     |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 0.3 J      | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 2.8 J      | 2.4 U      |            |
| delta-BHC                    | NL                                | 2.2 UJ     | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 2.4 U      | 2.4 U      |            |
| Dieldrin                     | 34                                | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 4.6 U      | 4.6 U      |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 4.6 U      | 4.6 U      |            |
| Endosulfan Sulfate           | 38000                             | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 4.6 U      | 4.6 U      |            |
| Endrin                       | 1900                              | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 4.6 U      | 4.6 U      |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.4 UJ     | 3.9 U      | 3.9 U      | 4.7 UJ     | 4.1 U      | 4.1 U      | 4.2 UJ     | 4.3 UJ     | 4 UJ       | 4.6 U      | 4.6 U      |            |
| gamma-BHC (Lindane)          | 570                               | 2.2 UJ     | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 2.4 U      | 2.4 U      |            |
| Heptachlor                   | 130                               | 2.2 UJ     | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 2.4 U      | 2.4 U      |            |
| Heptachlor epoxide           | 70                                | 2.2 UJ     | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 2.4 U      | 2.4 U      |            |
| Methoxychlor                 | 32000                             | 22 UJ      | 20 U       | 20 U       | 24 UJ      | 21 U       | 21 U       | 22 UJ      | 22 UJ      | 21 UJ      | 24 U       | 24 U       |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.2 UJ     | 2 U        | 2 U        | 2.4 UJ     | 2.1 U      | 2.1 U      | 2.2 UJ     | 2.2 UJ     | 2.1 UJ     | 1.7 J      | 2.4 U      |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk



Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-160 | NLR-SS-160 | NLR-CS-161 | NLR-SS-161 | NLR-CS-162 | NLR-SS-162 | NLR-CS-163 | NLR-DB-163 | NLR-SB-163 | NLR-SS-163 |            |
|------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CLP Sample Number:           |                                   | MC0B91     | MC0B23     | MC0B92     | MC0B24     | MC0B93     | MC0B25     | MC0B94     | MC0BE5     | MC0BD0     | MC0B26     |            |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |            |
| Sample Date:                 |                                   | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 | 11/19/2020 |            |
| Sample Depth:                |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-0.5      |
| Sample Type:                 |                                   | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background |
| PCB                          | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          |
| Aroclor-1248                 | 230                               | 48 U       | 41 U       | 42 U       | 200        | 18 J       | 40 U       | 46 U       | 41 U       | 41 U       | 43 U       |            |
| Aroclor-1254                 | 120                               | 48 U       | 41 U       | 17 J       | 290        | 30 J       | 40 U       | 46 U       | 41 U       | 41 U       | 43 U       |            |
| Aroclor-1260                 | 240                               | 48 U       | 41 U       | 42 U       | 43 U       | 43 U       | 40 U       | 46 U       | 41 U       | 41 U       | 43 U       |            |
| <b>Pesticides</b>            |                                   |            |            |            |            |            |            |            |            |            |            |            |
| 4,4-DDD                      | 190                               | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 4.3 U      | 4 U        | 4.6 U      | 4.1 U      | 4.1 U      | 0.51 J     |            |
| 4,4-DDE                      | 2000                              | 4.7 UJ     | 0.25 J     | 0.28 J     | 4.3 U      | 4.3 U      | 4 U        | 0.65 J     | 4.1 U      | 4.1 U      | 0.8 J      |            |
| 4,4-DDT                      | 1900                              | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 4.3 U      | 4 U        | 0.91 J     | 4.1 U      | 4.1 U      | 0.9 J      |            |
| Aldrin                       | 39                                | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 0.55 J     | 2.1 U      | 2.4 U      | 2.1 U      | 2.1 U      | 2.2 U      |            |
| cis-Chlordane <sup>1</sup>   | 1700                              | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 2.2 U      | 2.1 U      | 0.58 J     | 2.1 U      | 2.1 U      | 1 J        |            |
| delta-BHC                    | NL                                | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 2.2 U      | 2.1 U      | 2.4 U      | 2.1 U      | 2.1 U      | 2.2 U      |            |
| Dieldrin                     | 34                                | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 4.3 U      | 4 U        | 4.6 U      | 4.1 U      | 4.1 U      | 4.3 U      |            |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 4.3 U      | 4 U        | 4.6 U      | 4.1 U      | 4.1 U      | 4.3 U      |            |
| Endosulfan Sulfate           | 38000                             | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 4.3 U      | 4 U        | 4.6 U      | 4.1 U      | 4.1 U      | 4.3 U      |            |
| Endrin                       | 1900                              | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 0.26 J     | 4 U        | 4.6 U      | 4.1 U      | 4.1 U      | 4.3 U      |            |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.7 UJ     | 4.1 UJ     | 4.2 UJ     | 4.3 U      | 4.3 U      | 4 U        | 4.6 U      | 4.1 U      | 4.1 U      | 4.3 U      |            |
| gamma-BHC (Lindane)          | 570                               | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 2.2 U      | 2.1 U      | 2.4 U      | 2.1 U      | 2.1 U      | 2.2 U      |            |
| Heptachlor                   | 130                               | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 2.2 U      | 2.1 U      | 2.4 U      | 2.1 U      | 2.1 U      | 2.2 U      |            |
| Heptachlor epoxide           | 70                                | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 2.2 U      | 2.1 U      | 2.4 U      | 2.1 U      | 2.1 U      | 2.2 U      |            |
| Methoxychlor                 | 32000                             | 24 UJ      | 21 UJ      | 22 UJ      | 22 U       | 22 U       | 21 U       | 24 U       | 21 U       | 21 U       | 22 U       |            |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.4 UJ     | 2.1 UJ     | 2.2 UJ     | 2.2 U      | 2.2 U      | 2.1 U      | 0.4 J      | 2.1 U      | 2.1 U      | 0.25 J     |            |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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NL = No listed value

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Q = Qualifier

QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:         | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-164 | NLR-SS-164 | NLR-CS-165 | NLR-SS-165 | NLR-CS-166 | NLR-SB-166 | NLR-SS-166 | NLR-CS-167 | NLR-SB-167 | NLR-SS-167 |   |
|--------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| CLP Sample Number: |                                   | MC0B95     | MC0B27     | MC0B96     | MC0B28     | MC0B97     | MC0BD1     | MC0B29     | MC0B98     | MC0BD2     | MC0B30     |   |
| Units:             |                                   | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      | µg/kg      |   |
| Sample Date:       |                                   | 11/19/2020 | 11/19/2020 | 12/2/2020  | 12/2/2020  | 11/19/2020 | 11/19/2020 | 11/19/2020 | 12/2/2020  | 11/19/2020 | 12/2/2020  |   |
| Sample Depth:      |                                   | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |   |
| Sample Type:       |                                   | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background |   |
| PCB                | Result                            | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q |
| Aroclor-1248       | 230                               | 42 U       | 45 U       | 44 U       | 41 U       | 41 U       | 39 U       | 41 U       | 43 U       | 41 U       | 41 U       |   |
| Aroclor-1254       | 120                               | 34 J       | 52         | 44 U       | 41 U       | 41 U       | 39 U       | 41 U       | 43 U       | 41 U       | 41 U       |   |
| Aroclor-1260       | 240                               | 42 U       | 45 U       | 44 U       | 41 U       | 8.8 J      | 39 U       | 41 U       | 43 U       | 41 U       | 41 U       |   |

**Pesticides**

|                              |       |        |        |        |        |       |       |       |        |       |        |
|------------------------------|-------|--------|--------|--------|--------|-------|-------|-------|--------|-------|--------|
| 4,4-DDD                      | 190   | 1.5 J  | 4.5 U  | 4.4 UJ | 4.1 UJ | 4.1 U | 3.9 U | 4.1 U | 4.3 U  | 4.1 U | 4.1 U  |
| 4,4-DDE                      | 2000  | 2.5 J  | 0.46 J | 3.5 J  | 1.6 J  | 4.1 U | 3.9 U | 4.1 U | 0.52 J | 4.1 U | 0.28 J |
| 4,4-DDT                      | 1900  | 31     | 0.41 J | 1.8 J  | 1 J    | 4.1 U | 3.9 U | 4.1 U | 0.45 J | 4.1 U | 4.1 U  |
| Aldrin                       | 39    | 2.2 U  | 2.3 U  | 2.3 UJ | 2.1 UJ | 2.1 U | 2 U   | 2.1 U | 2.2 U  | 2.1 U | 2.1 U  |
| cis-Chlordane <sup>1</sup>   | 1700  | 2.2 U  | 2.3 U  | 1.5 J  | 0.91 J | 2.1 U | 2 U   | 2.1 U | 5.7 R  | 2.1 U | 0.8 J  |
| delta-BHC                    | NL    | 2.2 U  | 2.3 U  | 2.3 UJ | 2.1 UJ | 2.1 U | 2 U   | 2.1 U | 2.2 U  | 2.1 U | 2.1 U  |
| Dieldrin                     | 34    | 0.31 J | 4.5 U  | 4.4 UJ | 4.1 UJ | 4.1 U | 3.9 U | 4.1 U | 4.3 U  | 4.1 U | 4.1 U  |
| Endosulfan II <sup>2</sup>   | 4700  | 4.2 U  | 4.5 U  | 4.4 UJ | 4.1 UJ | 4.1 U | 3.9 U | 4.1 U | 4.3 U  | 4.1 U | 4.1 U  |
| Endosulfan Sulfate           | 38000 | 4.2 U  | 4.5 U  | 4.4 UJ | 4.1 UJ | 4.1 U | 3.9 U | 4.1 U | 4.3 U  | 4.1 U | 4.1 U  |
| Endrin                       | 1900  | 0.74 J | 0.24 J | 4.4 UJ | 4.1 UJ | 4.1 U | 3.9 U | 4.1 U | 4.3 U  | 4.1 U | 4.1 U  |
| Endrin ketone <sup>3</sup>   | 1900  | 4.2 U  | 4.5 U  | 4.4 UJ | 4.1 UJ | 4.1 U | 3.9 U | 4.1 U | 4.3 U  | 4.1 U | 4.1 U  |
| gamma-BHC (Lindane)          | 570   | 2.2 U  | 2.3 U  | 2.3 UJ | 2.1 UJ | 2.1 U | 2 U   | 2.1 U | 2.2 U  | 2.1 U | 2.1 U  |
| Heptachlor                   | 130   | 2.2 U  | 2.3 U  | 0.37 J | 2.1 UJ | 2.1 U | 2 U   | 2.1 U | 0.41 J | 2.1 U | 2.1 U  |
| Heptachlor epoxide           | 70    | 2.2 U  | 2.3 U  | 2.3 UJ | 2.1 UJ | 2.1 U | 2 U   | 2.1 U | 0.47 J | 2.1 U | 2.1 U  |
| Methoxychlor                 | 32000 | 22 U   | 23 U   | 23 UJ  | 21 UJ  | 21 U  | 20 U  | 21 U  | 22 U   | 21 U  | 21 U   |
| trans-Chlordane <sup>1</sup> | 1700  | 2.2 U  | 2.3 U  | 1 J    | 0.33 J | 2.1 U | 2 U   | 2.1 U | 2.1 J  | 2.1 U | 0.5 J  |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

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PCB = polychlorinated biphenyl

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QC = Quality control

TR = Target Risk

Table 9  
Norwood Landfill  
Residential Soil Samples  
PCB and Pesticide Analytical Results Summary

| Sample ID:                   | EPA RSL<br>Residential<br>(µg/kg) | NLR-CS-168 | NLR-SS-168 | NLR-CS-168-01 | NLR-SS-168-01 | NLR-CS-169 | NLR-SS-169 | NLR-CS-170 | NLR-SS-170 |        |   |        |   |        |  |       |
|------------------------------|-----------------------------------|------------|------------|---------------|---------------|------------|------------|------------|------------|--------|---|--------|---|--------|--|-------|
| CLP Sample Number:           |                                   | MC0BF9     | MC0BG1     | MC0BG0        | MC0BG2        | MC0BF2     | MC0BF3     | MC0BJ0     | MC0BJ1     |        |   |        |   |        |  |       |
| Units:                       |                                   | µg/kg      | µg/kg      | µg/kg         | µg/kg         | µg/kg      | µg/kg      | µg/kg      | µg/kg      |        |   |        |   |        |  |       |
| Sample Date:                 |                                   | 11/16/2020 | 11/16/2020 | 11/16/2020    | 11/16/2020    | 11/11/2020 | 11/11/2020 | 12/2/2020  | 12/2/2020  |        |   |        |   |        |  |       |
| Sample Depth:                |                                   | 0-0.5      | 0-0.5      | 0-0.5         | 0-0.5         | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      |        |   |        |   |        |  |       |
| Sample Type:                 |                                   | Field      | Field      | Field         | Field         | Field      | Field      | Field      | Field      |        |   |        |   |        |  |       |
| PCB                          |                                   | Result     | Q          | Result        | Q             | Result     | Q          | Result     | Q          | Result | Q | Result | Q |        |  |       |
| Aroclor-1248                 | 230                               | 42 U       |            | 42 U          |               | 43 U       |            | 42 U       |            | 43 U   |   | 44 U   |   | 46 U   |  | 46 U  |
| Aroclor-1254                 | 120                               | 13 J       |            | 42 U          |               | 43 U       |            | 42 U       |            | 43 U   |   | 13 J   |   | 46 U   |  | 46 U  |
| Aroclor-1260                 | 240                               | 42 U       |            | 42 U          |               | 43 U       |            | 42 U       |            | 43 U   |   | 44 U   |   | 46 U   |  | 46 U  |
| <b>Pesticides</b>            |                                   |            |            |               |               |            |            |            |            |        |   |        |   |        |  |       |
| 4,4-DDD                      | 190                               | 4.2 U      |            | 4.2 U         |               | 4.3 U      |            | 4.2 U      |            | 4.3 U  |   | 4.3 U  |   | 4.6 U  |  | 4.6 U |
| 4,4-DDE                      | 2000                              | 0.4 J      |            | 1.1 J         |               | 0.45 J     |            | 1.4 J      |            | 8.4    |   | 0.79 J |   | 4.6 U  |  | 4.6 U |
| 4,4-DDT                      | 1900                              | 0.33 J     |            | 0.98 J        |               | 0.6 J      |            | 1.9 J      |            | 7.2    |   | 4.3 U  |   | 4.6 U  |  | 4.6 U |
| Aldrin                       | 39                                | 2.2 U      |            | 2.1 U         |               | 2.2 U      |            | 2.2 U      |            | 2.2 U  |   | 2.2 U  |   | 2.4 U  |  | 2.4 U |
| cis-Chlordane <sup>1</sup>   | 1700                              | 0.27 J     |            | 1.3 J         |               | 0.54 J     |            | 2.5 J      |            | 21 J   |   | 1.2 J  |   | 0.27 J |  | 2.4 U |
| delta-BHC                    | NL                                | 2.2 U      |            | 2.1 U         |               | 2.2 U      |            | 2.2 U      |            | 2.2 U  |   | 2.2 U  |   | 2.4 U  |  | 2.4 U |
| Dieldrin                     | 34                                | 4.2 U      |            | 4.2 U         |               | 4.3 U      |            | 4.2 U      |            | 4 J    |   | 4.3 U  |   | 4.6 U  |  | 4.6 U |
| Endosulfan II <sup>2</sup>   | 4700                              | 4.2 U      |            | 4.2 U         |               | 4.3 U      |            | 4.2 U      |            | 4.3 U  |   | 4.3 U  |   | 1.5 J  |  | 4.6 U |
| Endosulfan Sulfate           | 38000                             | 4.2 U      |            | 4.2 U         |               | 4.3 U      |            | 4.2 U      |            | 4.3 U  |   | 4.3 U  |   | 4.6 U  |  | 4.6 U |
| Endrin                       | 1900                              | 4.2 U      |            | 4.2 U         |               | 4.3 U      |            | 0.2 J      |            | 4.3 U  |   | 4.3 U  |   | 4.6 U  |  | 4.6 U |
| Endrin ketone <sup>3</sup>   | 1900                              | 4.2 U      |            | 4.2 U         |               | 4.3 U      |            | 4.2 U      |            | 4.3 U  |   | 4.3 U  |   | 4.6 U  |  | 4.6 U |
| gamma-BHC (Lindane)          | 570                               | 2.2 U      |            | 2.1 U         |               | 2.2 U      |            | 2.2 U      |            | 2.1 J  |   | 2.2 U  |   | 1.1 J  |  | 2.4 U |
| Heptachlor                   | 130                               | 2.2 U      |            | 2.1 U         |               | 2.2 U      |            | 2.2 U      |            | 0.39 J |   | 2.2 U  |   | 2.4 U  |  | 2.4 U |
| Heptachlor epoxide           | 70                                | 2.2 U      |            | 2.1 U         |               | 2.2 U      |            | 2.2 U      |            | 0.94 J |   | 2.2 U  |   | 2.4 U  |  | 2.4 U |
| Methoxychlor                 | 32000                             | 22 U       |            | 21 U          |               | 22 U       |            | 22 U       |            | 22 U   |   | 22 U   |   | 24 U   |  | 24 U  |
| trans-Chlordane <sup>1</sup> | 1700                              | 2.2 U      |            | 0.72 J        |               | 0.45 J     |            | 2.2 J      |            | 17 J   |   | 0.39 J |   | 2.4 U  |  | 2.4 U |

**Notes:**

<sup>1</sup>The RSL values in table are for Chlordane

<sup>2</sup>The RSL value in table is for Endosulfan

<sup>3</sup>The RSL value in table is for Endrin

Data compared to EPA Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PCB = polychlorinated biphenyl

Q = Qualifier

QC = Quality control

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-101   | NLR-SS-101  | NLR-CS-102   | NLR-SS-102   | NLR-CS-103   | NLR-DB-103   | NLR-SB-103   | NLR-SS-103   |   |
|-----------------------|-----------------------------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| CLP Sample Number:    |                                   | MCOB32       | MCOAW4      | MCOB33       | MCOAW5       | MCOB34       | MCOBD3       | MCOBA1       | MCOAW6       |   |
| Units:                |                                   | mg/kg        | mg/kg       | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        |   |
| Sample Date:          |                                   | 11/10/2020   | 11/10/2020  | 11/11/2020   | 11/11/2020   | 12/2/2020    | 11/18/2020   | 11/18/2020   | 12/2/2020    |   |
| Sample Depth:         |                                   | 0-0.5        | 0-0.5       | 0-0.5        | 0-0.5        | 0-0.5        | 8-10         | 2-4          | 0-0.5        |   |
| Sample Type:          | Field                             | Field        | Field       | Field        | Field        | Field        | Field        | Field        |              |   |
| Metals                | Result                            | Q            | Result      | Q            | Result       | Q            | Result       | Q            | Result       | Q |
| Aluminum              | 7700                              | 5360         | 1800        | <b>8950</b>  | <b>8650</b>  | <b>9680</b>  | <b>11800</b> | <b>12900</b> | <b>10900</b> |   |
| Antimony              | 3.1                               | 1.2 U        | 1.1 U       | 1.2 U        | 1.3 U        | 1.3 U        | 1.1 U        | 1 U          | 1.3 U        |   |
| Arsenic               | 0.68                              | <b>16</b>    | <b>19.3</b> | <b>6.1</b>   | <b>3.6</b>   | <b>5.9</b>   | <b>5.4</b>   | <b>4.7</b>   | <b>4.3</b>   |   |
| Barium                | 1500                              | 37.1         | 13          | 54.4         | 48.4         | 56.7         | 64.6         | 43.9         | 50.6         |   |
| Beryllium             | 16                                | 0.62 U       | 0.54 U      | 0.56 J       | 0.56 J       | 0.52 J       | 0.97         | 0.58         | 0.53 J       |   |
| Cadmium               | 7.1                               | 0.99         | 0.54 U      | 0.63         | 0.98         | 0.19 J       | 0.12 J       | 0.28 J       | 0.12 J       |   |
| Calcium               | NL                                | 6560         | 7370        | 3550         | 1930         | 999          | 367 J        | 687          | 1270         |   |
| Chromium <sup>1</sup> | 12,000                            | 18.4         | 12.6        | 14.7         | 14.6         | 22.2         | 31.2         | 21.9         | 18.9         |   |
| Cobalt                | 2.3                               | <b>2.9</b>   | 1.1         | <b>5.1</b>   | <b>5.2</b>   | <b>7.4</b>   | <b>15.5</b>  | <b>9.3</b>   | <b>6.3</b>   |   |
| Copper                | 310                               | 43           | 28.5        | 23.6         | 28           | 22           | 13.9         | 10.3         | 14.1         |   |
| Iron                  | 5500                              | <b>10600</b> | 3800        | <b>17000</b> | <b>16200</b> | <b>19500</b> | <b>25500</b> | <b>23400</b> | <b>20200</b> | J |
| Lead                  | 400                               | 75.1         | 17          | 89.3         | 67.9         | 75.4         | 9.3          | 20.9         | 43.1         |   |
| Magnesium             | NL                                | 3230         | 3370        | 2520         | 1480         | 1780         | 2900         | 1740         | 1850         |   |
| Manganese             | 180                               | <b>148</b>   | 97.3        | <b>240</b>   | <b>303</b>   | <b>276</b>   | <b>216</b>   | <b>456</b>   | <b>271</b>   |   |
| Mercury               | 1.1                               | 0.12         | 0.033 J     | 0.31         | 0.13         | 0.13 UJ      | 0.12 UJ      | 0.11 UJ      | 0.13 UJ      |   |
| Nickel                | 150                               | 7.6          | 2.9         | 9.1          | 9.8          | 12           | 13.7         | 9.2          | 10           |   |
| Potassium             | NL                                | 369 J        | 190 J       | 569 J        | 359 J        | 584 J        | 609          | 690          | 609 J        |   |
| Silver                | 39                                | 0.62 U       | 0.54 U      | 0.1 J        | 0.094 J      | 0.67 UJ      | 0.56 U       | 0.52 U       | 0.65 UJ      |   |
| Sodium                | NL                                | 668 U        | 583 U       | 626 U        | 624 U        | 653 U        | 243 J        | 566 U        | 648 U        |   |
| Thallium              | 0.078                             | 0.62 U       | 0.54 U      | 0.62 U       | 0.64 U       | 0.67 U       | 0.56 U       | 0.52 U       | 0.65 U       |   |
| Vanadium              | 39                                | 14           | 4.5         | 21.5         | 23.9         | <b>41</b>    | <b>45.6</b>  | 34.4         | 34.2         |   |
| Zinc                  | 2300                              | 145          | 68.2        | 216          | 152          | 69.4         | 38.6         | 57.1         | 49           |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-104 | NLR-SS-104 | NLR-CS-104-01 | NLR-SS-104-01 | NLR-CS-105 | NLR-SS-105 | NLR-CS-106 | NLR-SS-106 | NLR-CS-107 | NLR-SB-107 | NLR-SS-107 |            |   |       |   |       |   |       |   |       |   |       |   |
|-----------------------|-----------------------------------|------------|------------|---------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| CLP Sample Number:    |                                   | MC0B35     | MC0AW7     | MC0BE9        | MC0BF0        | MC0B36     | MC0AW8     | MC0B37     | MC0AW9     | MC0B38     | MC0BA2     | MC0AX0     |            |   |       |   |       |   |       |   |       |   |       |   |
| Units:                |                                   | mg/kg      | mg/kg      | mg/kg         | mg/kg         | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      |            |   |       |   |       |   |       |   |       |   |       |   |
| Sample Date:          |                                   | 11/10/2020 | 11/10/2020 | 11/10/2020    | 11/10/2020    | 11/10/2020 | 11/10/2020 | 11/10/2020 | 11/12/2020 | 11/12/2020 | 11/17/2020 | 11/17/2020 | 11/17/2020 |   |       |   |       |   |       |   |       |   |       |   |
| Sample Depth:         |                                   | 0-0.5      | 0-0.5      | 0-0.5         | 0-0.5         | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 0-0.5      | 2-4        | 0-0.5      |   |       |   |       |   |       |   |       |   |       |   |
| Sample Type:          | Field                             | Field      | Field      | Field         | Field         | Field      | Field      | Field      | Field      | Field      | Field      | Field      |            |   |       |   |       |   |       |   |       |   |       |   |
| Metals                | Result                            | Q          | Result     | Q             | Result        | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q |       |   |       |   |       |   |       |   |       |   |
| Aluminum              | 7700                              |            | 7560       |               | 9400          |            | 8370       |            | 7530       |            | 10600      |            | 10600      |   | 6020  |   | 5790  |   | 10300 |   | 12900 |   | 9880  |   |
| Antimony              | 3.1                               |            | 1.3        | U             | 1.6           | U          | 1.2        | U          | 1.4        | U          | 1.4        | U          | 1.7        | U | 1.2   | U | 1.2   | U | 1.3   | U | 1.1   | U | 1.3   | U |
| Arsenic               | 0.68                              |            | 3.8        |               | 4             |            | 4.6        |            | 3.8        |            | 4.6        |            | 6          |   | 2.7   |   | 3.8   |   | 3.1   |   | 2.8   |   | 2.5   |   |
| Barium                | 1500                              |            | 54.9       |               | 60.4          |            | 59.6       |            | 64.8       | J          | 78.6       | J          | 76.5       | J | 55.9  |   | 45.1  |   | 38    |   | 39.6  |   | 32.2  |   |
| Beryllium             | 16                                |            | 0.64       | U             | 0.81          | U          | 0.61       |            | 0.7        |            | 0.64       | J          | 0.83       | U | 0.58  | U | 0.61  | U | 0.45  | J | 0.52  | J | 0.4   | J |
| Cadmium               | 7.1                               |            | 0.64       | U             | 0.81          | U          | 0.6        | U          | 0.72       |            | 0.57       | J          | 0.83       | U | 0.58  | U | 0.61  | U | 0.48  | J | 0.087 | J | 0.42  | J |
| Calcium               | NL                                |            | 7260       |               | 7080          |            | 13200      |            | 7570       |            | 7000       |            | 12600      |   | 2700  |   | 3280  |   | 1810  |   | 624   |   | 1150  |   |
| Chromium <sup>1</sup> | 12,000                            |            | 14.7       |               | 15.9          |            | 17.8       |            | 17         |            | 26.9       | J          | 26.3       |   | 9     |   | 11    |   | 10.3  |   | 11.4  |   | 8.2   |   |
| Cobalt                | 2.3                               |            | 5.7        |               | 7.5           |            | 6.1        |            | 7.2        |            | 7.8        | J          | 8.1        |   | 3     |   | 3     |   | 5.2   |   | 6.4   |   | 4.4   |   |
| Copper                | 310                               |            | 44.6       |               | 33.7          |            | 824        |            | 38.6       |            | 37.8       |            | 42.2       |   | 15.1  |   | 16.2  |   | 15.9  |   | 8.7   |   | 10.6  |   |
| Iron                  | 5500                              |            | 14200      |               | 16500         |            | 15300      |            | 13400      | J          | 24800      | J          | 19900      |   | 11100 |   | 10900 |   | 20400 |   | 21300 |   | 19900 |   |
| Lead                  | 400                               |            | 50.8       |               | 85.9          |            | 70.8       |            | 65.3       |            | 52.3       |            | 91.4       |   | 49.1  |   | 41    |   | 55.2  |   | 41.2  |   | 61.5  |   |
| Magnesium             | NL                                |            | 3330       |               | 3150          |            | 5930       |            | 2610       |            | 2990       |            | 5960       |   | 1230  |   | 1350  |   | 2010  |   | 1950  |   | 1870  |   |
| Manganese             | 180                               |            | 364        |               | 567           |            | 406        |            | 560        |            | 458        |            | 476        |   | 175   |   | 152   |   | 258   |   | 320   |   | 240   |   |
| Mercury               | 1.1                               |            | 0.12       | J             | 0.15          | J          | 0.11       | J          | 0.13       | J          | 0.14       | U          | 0.26       |   | 0.07  | J | 0.089 | J | 0.13  | U | 0.12  | U | 0.13  | U |
| Nickel                | 150                               |            | 8.8        |               | 10.1          |            | 10.4       |            | 10.4       |            | 13.8       |            | 12.8       |   | 10.8  |   | 5.7   |   | 6.5   |   | 5.1   |   | 4.5   |   |
| Potassium             | NL                                |            | 505        | J             | 780           | J          | 541        | J          | 701        | J          | 1780       |            | 1360       |   | 630   |   | 525   | J | 835   |   | 791   |   | 808   |   |
| Silver                | 39                                |            | 0.64       | U             | 0.81          | U          | 0.6        | U          | 0.7        | U          | 0.1        | J          | 0.83       | U | 0.58  | U | 0.61  | U | 0.66  | U | 0.56  | U | 0.63  | U |
| Sodium                | NL                                |            | 651        | U             | 799           | U          | 674        | U          | 757        | U          | 757        | U          | 830        | U | 111   | J | 656   | U | 667   | U | 610   | U | 655   | U |
| Thallium              | 0.078                             |            | 0.64       | U             | 0.81          | U          | 0.6        | U          | 0.7        | U          | 0.11       | J          | 0.83       | U | 0.58  | U | 0.61  | U | 0.66  | U | 0.11  | J | 0.63  | U |
| Vanadium              | 39                                |            | 18.8       |               | 19.9          |            | 20.7       |            | 20         |            | 30.9       | J          | 22.7       | J | 13    |   | 15    |   | 22.7  |   | 18.7  |   | 16.2  |   |
| Zinc                  | 2300                              |            | 91.9       |               | 102           |            | 161        |            | 99.1       |            | 150        |            | 180        |   | 74    |   | 58.9  |   | 402   |   | 30.2  |   | 141   |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

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Unshaded columns are grab surface soil samples

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-108   | NLR-SB-108 | NLR-SS-108   | NLR-CS-109 | NLR-SS-109   | NLR-CS-110 | NLR-DB-110   | NLR-SB-110 | NLR-SS-110   | NLR-CS-111 | NLR-SB-111   | NLR-SS-111 |              |  |              |  |              |  |              |  |               |  |              |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|--|--------------|--|--------------|--|--------------|--|---------------|--|--------------|
| CLP Sample Number:    |                                   | MCOB39       | MCOBA3     | MCOAX1       | MCOB40     | MCOAX2       | MCOB41     | MCOBD4       | MCOBA4     | MCOAX3       | MCOB42     | MCOBA5       | MCOAX4     |              |  |              |  |              |  |              |  |               |  |              |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |  |              |  |              |  |              |  |               |  |              |
| Sample Date:          |                                   | 11/17/2020   | 11/17/2020 | 11/17/2020   | 11/10/2020 | 11/10/2020   | 12/2/2020  | 11/18/2020   | 11/18/2020 | 12/2/2020    | 11/17/2020 | 11/17/2020   | 11/17/2020 |              |  |              |  |              |  |              |  |               |  |              |
| Sample Depth:         |                                   | 0-0.5        | 2-4        | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 8-10         | 2-4        | 0-0.5        | 0-0.5      | 2-4          | 0-0.5      |              |  |              |  |              |  |              |  |               |  |              |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        |            |              |  |              |  |              |  |              |  |               |  |              |
| Metals                | Result                            | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            |  |              |  |              |  |              |  |               |  |              |
| Aluminum              | 7700                              | <b>9740</b>  |            | <b>11700</b> |            | <b>11600</b> |            | <b>9380</b>  |            | <b>9970</b>  |            | <b>10300</b> |            | 7240         |  | <b>11000</b> |  | <b>10500</b> |  | <b>10000</b> |  | <b>15700</b>  |  | <b>10500</b> |
| Antimony              | 3.1                               | 1.3 U        |            | 1.1 U        |            | 1.3 U        |            | 1.2 U        |            | 1.2 U        |            | 1.3 U        |            | 0.99 U       |  | 1.1 U        |  | 1.3 U        |  | 1.2 U        |  | 1.2 U         |  | 1.2 U        |
| Arsenic               | 0.68                              | <b>4.7</b>   |            | <b>2.1</b>   |            | <b>2.6</b>   |            | <b>4.9</b>   |            | <b>4.4</b>   |            | <b>6</b>     |            | <b>1.4</b>   |  | <b>5.2</b>   |  | <b>4.8</b>   |  | <b>4.8</b>   |  | <b>3.9</b>    |  | <b>3</b>     |
| Barium                | 1500                              | 33.8         |            | 36.9         |            | 36.7         |            | 65.9         |            | 68.6         |            | 70           |            | 64.7         |  | 46.2         |  | 66.8         |  | 41.4         |  | 39            |  | 42.1         |
| Beryllium             | 16                                | 0.44 J       |            | 0.52 J       |            | 0.48 J       |            | 0.7          |            | 0.67         |            | 0.64         |            | 0.39 J       |  | 0.54         |  | 0.48 J       |  | 0.51 J       |  | 0.73          |  | 0.56 J       |
| Cadmium               | 7.1                               | 0.28 J       |            | 0.12 J       |            | 0.2 J        |            | 0.71         |            | 0.72         |            | 0.34 J       |            | 0.5 U        |  | 0.098 J      |  | 0.46 J       |  | 0.24 J       |  | 0.078 J       |  | 0.2 J        |
| Calcium               | NL                                | 4540         |            | 824          |            | 2190         |            | 2730         |            | 2030         |            | 2660         |            | 385 J        |  | 1710         |  | 5060         |  | 1230         |  | 513 J         |  | 941          |
| Chromium <sup>1</sup> | 12,000                            | 13           |            | 10.3         |            | 9.7          |            | 22.7         |            | 21.3         |            | 25.8         |            | 21.7         |  | 25.1         |  | 22.1         |  | 9.8          |  | 26.5          |  | 7.2          |
| Cobalt                | 2.3                               | <b>4.1</b>   |            | <b>4.2</b>   |            | <b>4.6</b>   |            | <b>8.1</b>   |            | <b>8.2</b>   |            | 9            |            | <b>4.9</b>   |  | <b>10.1</b>  |  | <b>7.3</b>   |  | <b>4.6</b>   |  | <b>7.8</b>    |  | <b>4.2</b>   |
| Copper                | 310                               | 18.1         |            | 9.5          |            | 12.2         |            | 27.2         |            | 25.5         |            | 30.1         |            | 10.1         |  | <b>77.9</b>  |  | 25.4         |  | 13.5         |  | 14.8          |  | 9            |
| Iron                  | 5500                              | <b>19500</b> |            | <b>20200</b> |            | <b>21700</b> |            | <b>18600</b> |            | <b>21000</b> |            | <b>19700</b> |            | <b>28700</b> |  | <b>46800</b> |  | <b>20900</b> |  | <b>17400</b> |  | <b>25900</b>  |  | <b>16600</b> |
| Lead                  | 400                               | 51.8         |            | 34.3         |            | 43.1         |            | 110          |            | 126          |            | 61.4         |            | 5.5          |  | 25.3         |  | 98.4         |  | 40.3         |  | 10            |  | 39.8         |
| Magnesium             | NL                                | 2300         |            | 1890         |            | 2000         |            | 2040         |            | 1960         |            | 2530         |            | 1660         |  | 1640         |  | 3220         |  | 1840         |  | 3200          |  | 1560         |
| Manganese             | 180                               | <b>199</b>   |            | 176          |            | <b>252</b>   |            | <b>414</b>   |            | <b>479</b>   |            | <b>391</b>   |            | 69.7         |  | <b>387</b>   |  | <b>406</b>   |  | <b>330</b>   |  | <b>261</b>    |  | <b>352</b>   |
| Mercury               | 1.1                               | 0.13 U       |            | 0.12 U       |            | 0.14 U       |            | 0.24         |            | 0.16         |            | 0.12 UJ      |            | 0.11 UJ      |  | 0.11 UJ      |  | 0.13 UJ      |  | 0.13 U       |  | 0.12 U        |  | 0.12 U       |
| Nickel                | 150                               | 5.3          |            | 4.6          |            | 4.9          |            | 11           |            | 9.5          |            | 15.3         |            | 10           |  | 16.6         |  | 15.6         |  | 5.1          |  | 13.2          |  | 4            |
| Potassium             | NL                                | 944          |            | 654          |            | 866          |            | 567 J        |            | 663          |            | 930          |            | 409 J        |  | 564          |  | 542 J        |  | 609 J        |  | 1010          |  | 491 J        |
| Silver                | 39                                | 0.63 U       |            | 0.57 U       |            | 0.66 U       |            | 0.6 U        |            | 0.58 U       |            | 0.63 UJ      |            | 0.5 U        |  | 0.54 U       |  | 0.64 UJ      |  | 0.58 U       |  | 0.61 U        |  | 0.62 U       |
| Sodium                | NL                                | 661 U        |            | 589 U        |            | 669 U        |            | 636 U        |            | 591 U        |            | 640 U        |            | 542 U        |  | 153 J        |  | 649 U        |  | 641 U        |  | 586 U         |  | 643 U        |
| Thallium              | 0.078                             | 0.63 U       |            | 0.57 U       |            | 0.66 U       |            | 0.6 U        |            | 0.58 U       |            | 0.63 R       |            | 0.5 U        |  | 0.54 U       |  | 0.64 U       |  | 0.58 U       |  | <b>0.15 J</b> |  | 0.62 U       |
| Vanadium              | 39                                | 17.6         |            | 18.6         |            | 18.2         |            | 22.1 J       |            | 22 J         |            | <b>39.2</b>  |            | 14.6         |  | 31.6         |  | 37.2         |  | 16.2         |  | <b>46.3</b>   |  | 15           |
| Zinc                  | 2300                              | 61.7         |            | 27           |            | 65           |            | 150          |            | 142          |            | 114          |            | 37.4         |  | 33.6         |  | 169          |  | 66.5         |  | 37.6          |  | 32.4         |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III  
Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-112 | NLR-SB-112   | NLR-SS-112 | NLR-CS-113   | NLR-SS-113 | NLR-CS-114   | NLR-SS-114 | NLR-CS-115   | NLR-DB-115 | NLR-SB-115   | NLR-SS-115 |              |   |              |
|-----------------------|-----------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---|--------------|
| CLP Sample Number:    |                                   | MC0B43     | MC0BA6       | MC0AX5     | MC0B44       | MC0AX6     | MC0B45       | MC0AX7     | MC0B46       | MC0BD5     | MC0BA7       | MC0AX8     |              |   |              |
| Units:                |                                   | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |   |              |
| Sample Date:          |                                   | 11/17/2020 | 11/17/2020   | 11/17/2020 | 11/10/2020   | 11/10/2020 | 11/10/2020   | 11/10/2020 | 11/10/2020   | 12/2/2020  | 11/18/2020   | 11/18/2020 | 12/2/2020    |   |              |
| Sample Depth:         |                                   | 0-0.5      | 2-4          | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 8-10         | 2-4        | 0-0.5        |   |              |
| Sample Type:          | Field                             | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      |              |   |              |
| Metals                | Result                            | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q |              |
| Aluminum              | 7700                              |            | <b>10700</b> |            | <b>16000</b> |            | <b>11400</b> |            | <b>9790</b>  |            | <b>10400</b> |            | <b>8380</b>  |   | <b>11500</b> |
| Antimony              | 3.1                               |            | 1.3 U        |            | 1.2 U        |            | 1.3 U        |            | 1.3 U        |            | 1.2 U        |            | 1.1 U        |   | 1.2 U        |
| Arsenic               | 0.68                              |            | <b>2.2</b>   |            | <b>4.6</b>   |            | <b>1.6</b>   |            | <b>4.4</b>   |            | <b>3.8</b>   |            | <b>9.1</b>   |   | <b>3.9</b>   |
| Barium                | 1500                              |            | 32.2         |            | 38.2         |            | 37.2         |            | 43.8         |            | 29.5         |            | 42.2         |   | 42.9         |
| Beryllium             | 16                                |            | 0.49 J       |            | 0.72         |            | 0.61 J       |            | 0.65 U       |            | 0.61 U       |            | 0.6 U        |   | 0.62 U       |
| Cadmium               | 7.1                               |            | 0.15 J       |            | 0.62 U       |            | 0.14 J       |            | 0.65 U       |            | 0.61 U       |            | 0.6 U        |   | 0.62 U       |
| Calcium               | NL                                |            | 842          |            | 448 J        |            | 615 J        |            | 2000         |            | 657          |            | 1980         |   | 1850         |
| Chromium <sup>1</sup> | 12,000                            |            | 9.3          |            | 20.5         |            | 9.1          |            | 18.4         |            | 19.3         |            | 19.6         |   | 20.4         |
| Cobalt                | 2.3                               |            | <b>4.8</b>   |            | <b>7.5</b>   |            | <b>5.1</b>   |            | <b>6.4</b>   |            | <b>4.7</b>   |            | <b>4.7</b>   |   | <b>6.9</b>   |
| Copper                | 310                               |            | 9.9          |            | 13.2         |            | 9.7          |            | 23.2         |            | 15.8         |            | 55.8         |   | 14.1         |
| Iron                  | 5500                              |            | <b>19100</b> |            | <b>27400</b> |            | <b>18700</b> |            | <b>19300</b> |            | <b>20400</b> |            | <b>17700</b> |   | <b>21900</b> |
| Lead                  | 400                               |            | 33           |            | 8.3          |            | 33.8         |            | 50.1         |            | 28.2         |            | 30.4         |   | 31.5         |
| Magnesium             | NL                                |            | 2010         |            | 3090         |            | 1680         |            | 2070         |            | 2010         |            | 1750         |   | 2330         |
| Manganese             | 180                               |            | <b>303</b>   |            | <b>259</b>   |            | <b>407</b>   |            | <b>245</b>   |            | 135          |            | <b>191</b>   |   | <b>276</b>   |
| Mercury               | 1.1                               |            | 0.13 U       |            | 0.11 U       |            | 0.13 U       |            | 0.1 J        |            | 0.11 J       |            | 0.045 J      |   | 0.05 J       |
| Nickel                | 150                               |            | 7.2          |            | 11.1         |            | 11           |            | 11.9         |            | 8.8          |            | 8.6          |   | 9.9          |
| Potassium             | NL                                |            | 676          |            | 989          |            | 580 J        |            | 823          |            | 858          |            | 714          |   | 1010         |
| Silver                | 39                                |            | 0.65 U       |            | 0.62 U       |            | 0.64 U       |            | 0.65 U       |            | 0.61 U       |            | 0.6 U        |   | 0.62 U       |
| Sodium                | NL                                |            | 633 U        |            | 578 U        |            | 688 U        |            | 634 U        |            | 616 U        |            | 634 U        |   | 593 U        |
| Thallium              | 0.078                             |            | 0.65 U       |            | 0.12 J       |            | 0.64 U       |            | 0.65 U       |            | 0.61 U       |            | 0.6 U        |   | 0.62 U       |
| Vanadium              | 39                                |            | 19.6         |            | <b>41.4</b>  |            | 18.2         |            | 22.7 J       |            | 20.6 J       |            | 17.8         |   | 20.7 J       |
| Zinc                  | 2300                              |            | 48.2         |            | 33.8         |            | 43.9         |            | 159          |            | 53.6         |            | 157          |   | 52.9         |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-116 | NLR-SS-116   | NLR-CS-117 | NLR-CS-117-01 | NLR-SB-117 | NLR-SB-117-01 | NLR-SS-117 | NLR-SS-117-01 | NLR-CS-118 | NLR-SB-118   | NLR-SS-118 |              |   |              |    |              |   |              |   |              |   |              |   |     |   |
|-----------------------|-----------------------------------|------------|--------------|------------|---------------|------------|---------------|------------|---------------|------------|--------------|------------|--------------|---|--------------|----|--------------|---|--------------|---|--------------|---|--------------|---|-----|---|
| CLP Sample Number:    |                                   | MC0B47     | MC0AX9       | MC0B48     | MC0BG7        | MC0BA8     | MC0BG6        | MC0AY0     | MC0BG5        | MC0B49     | MC0BA9       | MC0AY2     |              |   |              |    |              |   |              |   |              |   |              |   |     |   |
| Units:                |                                   | mg/kg      | mg/kg        | mg/kg      | mg/kg         | mg/kg      | mg/kg         | mg/kg      | mg/kg         | mg/kg      | mg/kg        | mg/kg      | mg/kg        |   |              |    |              |   |              |   |              |   |              |   |     |   |
| Sample Date:          |                                   | 11/16/2020 | 11/16/2020   | 11/17/2020 | 11/17/2020    | 11/17/2020 | 11/17/2020    | 11/17/2020 | 11/17/2020    | 11/17/2020 | 11/17/2020   | 11/17/2020 | 11/17/2020   |   |              |    |              |   |              |   |              |   |              |   |     |   |
| Sample Depth:         |                                   | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5         | 2-4        | 2-4           | 0-0.5      | 0-0.5         | 0-0.5      | 2-4          | 0-0.5      | 0-0.5        |   |              |    |              |   |              |   |              |   |              |   |     |   |
| Sample Type:          | Field                             | Field      | Field        | Duplicate  | Field         | Duplicate  | Field         | Duplicate  | Field         | Field      | Field        | Field      |              |   |              |    |              |   |              |   |              |   |              |   |     |   |
| Metals                | Result                            | Q          | Result       | Q          | Result        | Q          | Result        | Q          | Result        | Q          | Result       | Q          | Result       | Q |              |    |              |   |              |   |              |   |              |   |     |   |
| Aluminum              | 7700                              |            | <b>10700</b> |            | <b>9560</b>   |            | <b>10400</b>  |            | <b>11300</b>  |            | <b>10400</b> |            | <b>10100</b> |   | <b>14500</b> |    | <b>12900</b> |   | <b>10400</b> |   | <b>12700</b> |   | <b>9890</b>  |   |     |   |
| Antimony              | 3.1                               |            | 1.4          | U          | 1.4           | U          | 1.2           | U          | 1.3           | U          | 1.2          | U          | 1.2          | U | 1.4          | U  | 1.4          | U | 1.3          | U | 1.3          | U | 1.2          | U | 1.3 | U |
| Arsenic               | 0.68                              |            | <b>11.3</b>  |            | <b>4.4</b>    |            | <b>5.7</b>    |            | <b>5.2</b>    |            | <b>2.5</b>   |            | <b>2.6</b>   |   | <b>2</b>     |    | <b>4.6</b>   |   | <b>3.5</b>   |   | <b>3</b>     |   | <b>2.4</b>   |   |     |   |
| Barium                | 1500                              |            | 40.8         |            | 31            |            | 32.4          |            | 40.6          |            | 33.1         |            | 32.5         |   | 35.3         |    | 49           |   | 37.9         |   | 33.8         |   | 43.3         |   |     |   |
| Beryllium             | 16                                |            | 0.55         | J          | 0.48          | J          | 0.38          | J          | 0.52          | J          | 0.56         | J          | 0.55         | J | 0.51         | J  | 0.55         | J | 0.43         | J | 0.58         | J | 0.41         | J |     |   |
| Cadmium               | 7.1                               |            | 0.32         | J          | 0.13          | J          | 0.32          | J          | 0.34          | J          | 0.079        | J          | 0.58         | U | 0.17         | J  | 0.36         | J | 0.83         |   | 0.1          | J | 0.41         | J |     |   |
| Calcium               | NL                                |            | 1220         |            | 493           | J          | 3010          |            | 2400          |            | 605          |            | 544          | J | 1570         |    | 2900         |   | 6790         |   | 933          |   | 5800         |   |     |   |
| Chromium <sup>1</sup> | 12,000                            |            | 21           |            | 18.5          |            | 10.2          |            | 17.1          |            | 13.1         |            | 12.4         |   | 10.4         |    | 15.9         |   | 10.6         |   | 15.8         |   | 13.1         |   |     |   |
| Cobalt                | 2.3                               |            | <b>5.5</b>   |            | <b>4.6</b>    |            | <b>4</b>      |            | <b>5.9</b>    |            | <b>5.8</b>   |            | <b>5.4</b>   |   | <b>7</b>     |    | <b>5.9</b>   |   | <b>4.6</b>   |   | <b>8.5</b>   |   | <b>4.7</b>   |   |     |   |
| Copper                | 310                               |            | 29           |            | 13.6          |            | 19.6          |            | 17.1          |            | 7.5          |            | 6.4          |   | 8.7          |    | 16.2         |   | 14.8         |   | 11           |   | 26.9         |   |     |   |
| Iron                  | 5500                              |            | <b>22000</b> |            | <b>18100</b>  |            | <b>20600</b>  |            | <b>21100</b>  |            | <b>19800</b> |            | <b>18500</b> |   | <b>25300</b> | J  | <b>24800</b> |   | <b>22700</b> |   | <b>24800</b> |   | <b>21000</b> |   |     |   |
| Lead                  | 400                               |            | 47.3         |            | 24.8          |            | 25.2          |            | 32.8          |            | 6.6          |            | 6.2          |   | 19.1         |    | 36.2         |   | 59.8         |   | 11.6         |   | 76.7         |   |     |   |
| Magnesium             | NL                                |            | 2110         |            | 1860          |            | 2440          |            | 2320          |            | 2370         |            | 2050         |   | 3000         |    | 2300         |   | 4560         |   | 2610         |   | 3090         |   |     |   |
| Manganese             | 180                               |            | <b>215</b>   |            | 103           |            | <b>194</b>    |            | <b>280</b>    |            | <b>249</b>   |            | <b>207</b>   |   | <b>543</b>   |    | <b>216</b>   |   | <b>267</b>   |   | <b>309</b>   |   | <b>318</b>   |   |     |   |
| Mercury               | 1.1                               |            | 0.14         | UJ         | 0.13          | UJ         | 0.12          | U          | 0.12          | U          | 0.11         | U          | 0.11         | U | 0.14         | U  | 0.13         | U | 0.13         | U | 0.11         | U | 0.13         | U |     |   |
| Nickel                | 150                               |            | 11.1         |            | 10.6          |            | 5.6           |            | 10            |            | 8.1          |            | 7.1          |   | 6.5          |    | 10.5         |   | 6.5          |   | 10.3         |   | 7            |   |     |   |
| Potassium             | NL                                |            | 897          |            | 694           |            | 895           |            | 962           |            | 813          |            | 802          |   | 1250         |    | 1050         |   | 836          |   | 972          |   | 1050         |   |     |   |
| Silver                | 39                                |            | 0.11         | J          | 0.68          | U          | 0.12          | J          | 0.093         | J          | 0.59         | U          | 0.58         | U | 0.7          | UJ | 0.69         | U | 0.16         | J | 0.59         | U | 0.25         | J |     |   |
| Sodium                | NL                                |            | 667          | U          | 646           | U          | 644           | U          | 622           | U          | 580          | U          | 570          | U | 703          | U  | 662          | U | 638          | U | 586          | U | 648          | U |     |   |
| Thallium              | 0.078                             |            | 0.7          |            | 0.68          | U          | 0.58          | U          | <b>0.085</b>  | J          | 0.59         | U          | 0.075        | J | 0.7          | U  | <b>0.094</b> | J | 0.66         | U | <b>0.096</b> | J | 0.66         | U |     |   |
| Vanadium              | 39                                |            | 32           |            | 33.6          |            | 16.4          |            | 26            |            | 22.5         |            | 21.5         |   | 24.8         |    | 28.3         |   | 18.7         |   | 30           |   | 18           |   |     |   |
| Zinc                  | 2300                              |            | 138          |            | 45            |            | 114           |            | 87.7          |            | 23.2         |            | 20.7         |   | 48           |    | 78.9         |   | 56.7         |   | 30.7         |   | 63.2         |   |     |   |

Notes:

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk



Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            |                                   | NLR-CS-119   | NLR-DB-119 | NLR-SB-119   | NLR-SS-119 | NLR-CS-120   | NLR-SS-120 | NLR-CS-121   | NLR-DB-121 | NLR-SB-121   | NLR-SS-121 | NLR-SB-121-01 |       |              |      |              |      |              |      |              |      |              |      |   |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|---------------|-------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|---|
| CLP Sample Number:    |                                   | MC0B50       | MC0BD6     | MC0BB0       | MC0AY1     | MC0B51       | MC0AY3     | MC0B52       | MC0BD7     | MC0BB1       | MC0AY4     | MC0BH5        |       |              |      |              |      |              |      |              |      |              |      |   |
| Units:                | EPA RSL<br>Residential<br>(mg/kg) | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg         |       |              |      |              |      |              |      |              |      |              |      |   |
| Sample Date:          |                                   | 12/2/2020    | 11/18/2020 | 11/18/2020   | 12/2/2020  | 11/11/2020   | 11/11/2020 | 12/2/2020    | 11/18/2020 | 11/18/2020   | 12/2/2020  | 11/18/2020    |       |              |      |              |      |              |      |              |      |              |      |   |
| Sample Depth:         |                                   | 0-0.5        | 8-10       | 2-4          | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 8-10       | 2-4          | 0-0.5      | 2-4           |       |              |      |              |      |              |      |              |      |              |      |   |
| Sample Type:          |                                   | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Duplicate     |       |              |      |              |      |              |      |              |      |              |      |   |
| Metals                |                                   | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result        | Q     |              |      |              |      |              |      |              |      |              |      |   |
| Aluminum              | 7700                              | <b>9730</b>  |            | <b>33100</b> |            | <b>10200</b> |            | <b>10600</b> |            | <b>10600</b> |            | <b>9660</b>   |       | <b>10400</b> |      | <b>9090</b>  |      | <b>13600</b> |      | <b>10600</b> |      | <b>17700</b> |      |   |
| Antimony              | 3.1                               | 1.3          | U          | 1.7          | U          | 1.2          | U          | 1.3          | U          | 1.2          | U          | 1.1           | U     | 1.1          | U    | 1.1          | U    | 1.3          | U    | 1.3          | U    | 1.2          | U    |   |
| Arsenic               | 0.68                              | <b>5.5</b>   |            | 0.84         | U          | <b>3.6</b>   |            | <b>5.2</b>   |            | <b>4.3</b>   |            | <b>4.3</b>    |       | <b>3.3</b>   |      | <b>5.2</b>   |      | <b>4.2</b>   |      | <b>4.2</b>   |      | <b>4.9</b>   |      |   |
| Barium                | 1500                              | 61.2         |            | <b>214</b>   |            | 36.6         |            | 41.4         |            | 51.8         |            | 42.5          |       | 53.5         |      | 39.3         |      | 40.3         |      | 52.9         |      | 37.7         |      |   |
| Beryllium             | 16                                | 0.53         | J          | <b>1.5</b>   |            | 0.66         |            | 0.51         | J          | 0.57         | J          | 0.56          |       | 0.56         |      | 0.58         |      | 0.54         | J    | 0.54         | J    | 0.47         | J    |   |
| Cadmium               | 7.1                               | 0.43         | J          | 0.11         | J          | 0.6          | U          | 0.11         | J          | 0.38         | J          | 0.17          | J     | 0.2          | J    | 0.098        | J    | 0.57         | U    | 0.13         | J    | 0.58         | U    |   |
| Calcium               | NL                                | 1830         |            | 2190         |            | 321          | J          | 755          |            | 1750         |            | 703           |       | 1740         |      | 643          |      | 1360         |      | 1660         |      | 1320         |      |   |
| Chromium <sup>1</sup> | 12,000                            | 23.9         |            | <b>67.3</b>  |            | 22.8         |            | 26.9         |            | 19           |            | 18.5          |       | 32.2         |      | 17           |      | 25.8         |      | 52.2         |      | 22           |      |   |
| Cobalt                | 2.3                               | <b>8.3</b>   |            | <b>27.5</b>  |            | <b>8.4</b>   |            | <b>7.3</b>   |            | <b>9.6</b>   |            | <b>4.9</b>    |       | <b>9.8</b>   |      | <b>7.4</b>   |      | <b>6</b>     |      | <b>10.4</b>  |      | <b>6.6</b>   |      |   |
| Copper                | 310                               | 46           |            | 14.8         |            | 12.4         |            | 18.3         |            | 21.8         |            | 18.5          |       | 20.5         |      | 9.1          |      | 12           |      | 16.6         |      | 11           |      |   |
| Iron                  | 5500                              | <b>20700</b> |            | <b>66000</b> |            | <b>19300</b> |            | <b>21900</b> |            | <b>19800</b> |            | <b>18600</b>  |       | <b>21200</b> |      | <b>19400</b> |      | <b>23700</b> |      | <b>21700</b> |      | <b>26000</b> |      |   |
| Lead                  | 400                               | 47.8         |            | 11.2         |            | 8.3          |            | 34.4         |            | 60.8         |            | 57.2          |       | 55.4         |      | 7.9          |      | 16.8         |      | 52.3         |      | 9.3          |      |   |
| Magnesium             | NL                                | 2130         |            | 12400        |            | 2130         |            | 2190         |            | 2410         |            | 1960          |       | 1840         |      | 2160         |      | 1990         |      | 1720         |      | 2360         |      |   |
| Manganese             | 180                               | <b>300</b>   |            | <b>482</b>   |            | <b>282</b>   |            | <b>227</b>   |            | <b>385</b>   |            | 150           |       | <b>359</b>   |      | <b>213</b>   |      | <b>135</b>   |      | <b>305</b>   |      | <b>152</b>   |      |   |
| Mercury               | 1.1                               | 0.31         |            | 0.18         | UJ         | 0.12         | UJ         | 0.12         | UJ         | 0.13         |            | 0.13          |       | 0.13         | UJ   | 0.11         | UJ   | 0.12         | UJ   | 0.13         | UJ   | 0.12         | UJ   |   |
| Nickel                | 150                               | 14.4         |            | <b>51.5</b>  |            | 13.3         |            | 13           |            | 11.7         |            | 7.8           |       | 14.8         |      | 9.9          |      | 10           |      | 19.6         |      | 10           |      |   |
| Potassium             | NL                                | 842          |            | <b>7690</b>  |            | 671          |            | 804          |            | 938          |            | 655           |       | 626          | J    | 606          |      | 800          |      | 571          | J    | 922          |      |   |
| Silver                | 39                                | 0.66         | UJ         | 0.84         | U          | 0.6          | U          | 0.63         | UJ         | 0.27         | J          | 0.66          | 0.099 | J            | 0.62 | UJ           | 0.55 | U            | 0.57 | U            | 0.63 | UJ           | 0.58 | U |
| Sodium                | NL                                | 652          | U          | 212          | J          | 576          | U          | 656          | U          | 620          | U          | 593           | U     | 658          | U    | 106          | J    | 572          | U    | 639          | U    | 560          | U    |   |
| Thallium              | 0.078                             | 0.66         | U          | <b>0.61</b>  | J          | 0.6          | U          | 0.63         | U          | <b>0.1</b>   | J          | <b>0.084</b>  | J     | 0.62         | U    | 0.55         | U    | 0.57         | U    | 0.63         | U    | 0.58         | U    |   |
| Vanadium              | 39                                | 37.6         |            | <b>94.1</b>  |            | <b>41.1</b>  |            | <b>39.4</b>  |            | 31.4         |            | 34.7          |       | 36.8         |      | 24.4         |      | 38.8         |      | 37.3         |      | 33.6         |      |   |
| Zinc                  | 2300                              | 167          |            | <b>160</b>   |            | 34           |            | 45.5         |            | 94.3         |            | 65.5          |       | 92           |      | 29.7         |      | 32.6         |      | 58.1         |      | 29.6         |      |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

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Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

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J = Reported value is estimated; actual value may be higher or lower.

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-122   | NLR-SS-122 | NLR-CS-123   | NLR-SB-123 | NLR-SS-123   | NLR-CS-124 | NLR-SS-124   | NLR-CS-125 | NLR-SB-125   | NLR-SS-125 |              |   |              |   |              |   |              |   |              |   |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---|--------------|---|--------------|---|--------------|---|--------------|---|
| CLP Sample Number:    |                                   | MC0B53       | MC0AY5     | MC0B54       | MC0BB2     | MC0AY6       | MC0B55     | MC0AY7       | MC0B56     | MC0BB3       | MC0AY8     |              |   |              |   |              |   |              |   |              |   |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |   |              |   |              |   |              |   |              |   |
| Sample Date:          |                                   | 11/11/2020   | 11/11/2020 | 11/17/2020   | 11/17/2020 | 11/17/2020   | 11/11/2020 | 11/11/2020   | 11/18/2020 | 11/18/2020   | 11/18/2020 |              |   |              |   |              |   |              |   |              |   |
| Sample Depth:         |                                   | 0-0.5        | 0-0.5      | 0-0.5        | 2-4        | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 2-4          | 0-0.5      |              |   |              |   |              |   |              |   |              |   |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        |            |              |   |              |   |              |   |              |   |              |   |
| Metals                |                                   | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          |              |   |              |   |              |   |              |   |              |   |
| Aluminum              | 7700                              | <b>9350</b>  |            | <b>9100</b>  |            | <b>11400</b> |            | <b>13500</b> |            | <b>11000</b> |            | <b>7890</b>  |   | 5590         |   | <b>8530</b>  |   | <b>12400</b> |   | <b>8970</b>  |   |
| Antimony              | 3.1                               | 1.3          | U          | 1.5          | U          | 1.2          | U          | 1.2          | U          | 1.3          | U          | 1.2          | U | 1.1          | U | 1.1          | U | 1.2          | U | 1.2          | U |
| Arsenic               | 0.68                              | <b>3.7</b>   |            | <b>3.5</b>   |            | <b>2</b>     |            | <b>4.2</b>   |            | <b>2.3</b>   |            | <b>4.2</b>   |   | <b>3.3</b>   |   | <b>17.1</b>  |   | <b>5.3</b>   |   | <b>8</b>     |   |
| Barium                | 1500                              | 51           |            | 69           |            | 29           |            | 54.3         |            | 32.5         |            | 40.4         |   | 33.4         |   | 56.3         |   | 47.9         |   | 59.9         |   |
| Beryllium             | 16                                | 0.61         | J          | 0.56         | J          | 0.42         | J          | 0.63         |            | 0.48         | J          | 0.46         | J | 0.35         | J | 0.65         |   | 0.73         |   | 0.57         | J |
| Cadmium               | 7.1                               | 0.65         |            | 0.4          | J          | 0.16         | J          | 0.077        | J          | 0.16         | J          | 0.38         | J | 0.25         | J | 0.3          | J | 0.077        | J | 0.4          | J |
| Calcium               | NL                                | 3770         |            | 9560         |            | 647          |            | 483          | J          | 936          |            | 2770         |   | 2020         |   | 1250         |   | 920          |   | 1710         |   |
| Chromium <sup>1</sup> | 12,000                            | 19           |            | 19.9         |            | 8.9          |            | 19.8         |            | 9.4          |            | 13.4         |   | 8.2          |   | 32.3         |   | 27.4         |   | 16.7         |   |
| Cobalt                | 2.3                               | <b>6.4</b>   |            | <b>6.6</b>   |            | <b>4.6</b>   |            | <b>9.9</b>   |            | <b>4.7</b>   |            | <b>4.7</b>   |   | <b>2.6</b>   |   | <b>7.5</b>   |   | <b>9.3</b>   |   | <b>6.1</b>   |   |
| Copper                | 310                               | 25.8         |            | 35.1         |            | 8.1          |            | 9            |            | 10.3         |            | 20.1         |   | 14.8         |   | 30.2         |   | 13.7         |   | 21.9         |   |
| Iron                  | 5500                              | <b>20600</b> |            | <b>21500</b> |            | <b>22500</b> |            | <b>22700</b> |            | <b>21100</b> |            | <b>16100</b> |   | <b>11200</b> |   | <b>18800</b> |   | <b>21400</b> |   | <b>16800</b> |   |
| Lead                  | 400                               | 58.8         |            | 37.9         |            | 29.6         |            | 13.4         |            | 28.1         |            | 38.9         |   | 38.5         |   | 123          |   | 22           |   | 77.1         |   |
| Magnesium             | NL                                | 2580         |            | 3930         |            | 2020         |            | 1850         |            | 2080         |            | 2010         |   | 915          |   | 2450         |   | 1700         |   | 1620         |   |
| Manganese             | 180                               | <b>311</b>   |            | <b>644</b>   |            | <b>218</b>   |            | <b>314</b>   |            | <b>242</b>   |            | <b>200</b>   |   | 162          |   | <b>311</b>   |   | <b>284</b>   |   | <b>430</b>   |   |
| Mercury               | 1.1                               | 0.13         | U          | 0.15         | U          | 0.12         | U          | 0.12         | U          | 0.12         | U          | 0.12         | U | 0.11         | U | 0.13         | U | 0.12         | U | 0.13         | U |
| Nickel                | 150                               | 13.4         |            | 18.7         |            | 4.9          |            | 9.3          |            | 5.8          |            | 8.3          |   | 3.9          |   | 12.9         |   | 11.8         |   | 11.5         |   |
| Potassium             | NL                                | 1250         |            | 1120         |            | 799          |            | 643          |            | 876          |            | 826          |   | 571          |   | 562          |   | 644          |   | 460          |   |
| Silver                | 39                                | 0.11         | J          | 0.73         | U          | 0.58         | U          | 0.58         | U          | 0.63         | U          | 0.62         | U | 0.56         | U | 0.11         | J | 0.58         | U | 0.11         | J |
| Sodium                | NL                                | 651          | U          | 756          | U          | 638          | U          | 552          | U          | 647          | U          | 637          | U | 564          | U | 613          | U | 574          | U | 545          | U |
| Thallium              | 0.078                             | <b>0.084</b> | J          | 0.73         | U          | 0.58         | U          | <b>0.1</b>   | J          | 0.63         | U          | 0.62         | U | 0.56         | U | 0.57         | U | 0.58         | U | 0.6          | U |
| Vanadium              | 39                                | 30.9         |            | 25.3         |            | 17.9         |            | 36.8         |            | 20.3         |            | 20.9         |   | 11.2         |   | <b>39.6</b>  |   | <b>44.6</b>  |   | 25.7         |   |
| Zinc                  | 2300                              | 156          |            | 210          |            | 27.7         |            | 28.6         |            | 36.6         |            | 78.1         |   | 45.3         |   | 142          |   | 51.6         |   | 327          |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            |  | NLR-CS-126   | NLR-DB-126 | NLR-SB-126   | NLR-SS-126 | NLR-CS-127   | NLR-SS-127 | NLR-CS-128   | NLR-SB-128 | NLR-SS-128   |            |              |   |              |    |              |   |              |   |
|-----------------------|--|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---|--------------|----|--------------|---|--------------|---|
| CLP Sample Number:    | <b>EPA RSL<br/>Residential<br/>(mg/kg)</b> | MC0B57       | MC0B58     | MC0BB4       | MC0AY9     | MC0B58       | MC0A20     | MC0B59       | MC0BB5     | MC0A21       |            |              |   |              |    |              |   |              |   |
| Units:                |  | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        |            |              |   |              |    |              |   |              |   |
| Sample Date:          |  | 12/2/2020    | 11/18/2020 | 11/18/2020   | 12/2/2020  | 11/11/2020   | 11/11/2020 | 11/18/2020   | 11/18/2020 | 11/18/2020   | 11/18/2020 |              |   |              |    |              |   |              |   |
| Sample Depth:         |  | 0-0.5        | 8-10       | 2-4          | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 2-4          | 0-0.5      |              |   |              |    |              |   |              |   |
| Sample Type:          |  | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      |              |   |              |    |              |   |              |   |
| Metals                |  | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          |              |   |              |    |              |   |              |   |
| Aluminum              | 7700                                       | <b>9670</b>  |            | <b>15700</b> |            | <b>9580</b>  |            | <b>11000</b> |            | <b>8960</b>  |            | <b>10200</b> |   | <b>9390</b>  |    | 7140         |   | <b>9110</b>  |   |
| Antimony              | 3.1  | 1.3          | U          | 1.3          | U          | 1.1          | U          | 1.2          | U          | 1.3          | U          | 1.1          | U | 2.7          |    | 2.7          |   | 1.2          | U |
| Arsenic               | 0.68                                       | <b>4.4</b>   |            | <b>0.93</b>  |            | <b>3.4</b>   |            | <b>4.1</b>   |            | <b>3.5</b>   |            | <b>2.9</b>   |   | <b>4.9</b>   |    | <b>7.9</b>   |   | <b>2.6</b>   |   |
| Barium                | 1500                                       | 52.6         | R          | 54.4         |            | 25           |            | 54.9         |            | 34.8         |            | 32.7         |   | 50.7         |    | 242          |   | 49.4         |   |
| Beryllium             | 16   | 0.55         | J          | 0.96         |            | 0.41         | J          | 0.56         | J          | 0.49         | J          | 0.51         | J | 0.52         | J  | 0.5          | J | 0.45         | J |
| Cadmium               | 7.1  | 0.24         | J          | 0.23         | J          | 0.55         | U          | 0.62         | U          | 0.33         | J          | 0.3          | J | 0.26         | J  | <b>4.3</b>   |   | 0.19         | J |
| Calcium               | NL   | 1990         |            | 1220         |            | 375          | J          | 1070         |            | 2090         |            | 1240         |   | 1610         |    | <b>8410</b>  |   | 1150         |   |
| Chromium <sup>1</sup> | 12,000                                     | 21.2         |            | 20.1         |            | 12.7         |            | 20.3         |            | 14.1         |            | 12.6         |   | 21.7         |    | 21.1         |   | 15.1         |   |
| Cobalt                | 2.3  | <b>8.5</b>   |            | <b>3.3</b>   |            | <b>10</b>    |            | <b>8.5</b>   |            | <b>6.1</b>   |            | <b>6.5</b>   |   | <b>7.1</b>   |    | <b>12.5</b>  |   | <b>6.4</b>   |   |
| Copper                | 310  | 18.5         |            | 8.2          |            | 8.2          |            | 16.1         |            | 19           |            | 14.7         |   | 19.4         |    | <b>412</b>   |   | 16.7         |   |
| Iron                  | 5500                                       | <b>20400</b> |            | <b>18200</b> |            | <b>20200</b> |            | <b>21700</b> |            | <b>19200</b> |            | <b>21800</b> |   | <b>19600</b> |    | <b>21800</b> |   | <b>17300</b> |   |
| Lead                  | 400  | 39.4         |            | 9.9          |            | 7            |            | 30.7         |            | 29.7         |            | 25.7         |   | 59.5         |    | <b>1070</b>  |   | 67.6         |   |
| Magnesium             | NL   | 2360         |            | 2560         |            | 2140         |            | 2530         |            | 1940         |            | 2080         |   | 1800         |    | 3490         |   | 1730         |   |
| Manganese             | 180  | <b>372</b>   |            | <b>59.6</b>  |            | <b>242</b>   |            | <b>429</b>   |            | <b>259</b>   |            | <b>240</b>   |   | <b>268</b>   |    | 159          |   | <b>235</b>   |   |
| Mercury               | 1.1  | 0.14         | UJ         | 0.14         | UJ         | 0.11         | UJ         | 0.12         | UJ         | 0.13         | U          | 0.12         | U | 0.13         | UJ | 1.2          |   | 0.12         | U |
| Nickel                | 150  | 13.5         |            | 10.3         |            | 9.6          |            | 13.8         |            | 9            |            | 7.8          |   | 11.5         |    | <b>49.1</b>  |   | 9.6          |   |
| Potassium             | NL   | 661          | J          | 1040         |            | 569          |            | 745          |            | 757          |            | 598          | J | 905          |    | 844          |   | 935          |   |
| Silver                | 39   | 0.65         | UJ         | 0.64         | U          | 0.55         | U          | 0.62         | UJ         | 0.62         | U          | 0.64         | U | 0.21         | J  | <b>1.4</b>   |   | 0.29         | J |
| Sodium                | NL   | 670          | U          | 642          | U          | 561          | U          | 617          | U          | 636          | U          | 612          | U | 624          | U  | 237          | J | 581          | U |
| Thallium              | 0.078                                      | 0.65         | U          | 0.64         | U          | 0.55         | U          | 0.62         | U          | 0.62         | U          | 0.64         | U | 0.57         | U  | 0.62         | U | 0.59         | U |
| Vanadium              | 39   | 37.4         |            | 17.8         |            | 23.8         |            | 36           |            | 25.1         |            | 24           |   | 34.4         |    | <b>47.1</b>  |   | 27.6         |   |
| Zinc                  | 2300                                       | 101          |            | 89.9         |            | 26.8         |            | 56.5         |            | 134          |            | 55.9         |   | 91.5         |    | <b>797</b>   |   | 70.4         |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-129   | NLR-DB-129 | NLR-SB-129   | NLR-SS-129 | NLR-CS-130   | NLR-SB-130 | NLR-SS-130   | NLR-CS-131 | NLR-SB-131   | NLR-SS-131 |              |    |              |    |              |    |              |    |              |    |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|
| CLP Sample Number:    |                                   | MC0B60       | MC0BD9     | MC0BB6       | MC0AZ2     | MC0B61       | MC0BB7     | MC0AZ3       | MC0B62     | MC0BB8       | MC0AZ4     |              |    |              |    |              |    |              |    |              |    |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |    |              |    |              |    |              |    |              |    |
| Sample Date:          |                                   | 12/2/2020    | 11/19/2020 | 11/19/2020   | 12/2/2020  | 11/18/2020   | 11/18/2020 | 11/18/2020   | 11/18/2020 | 11/18/2020   | 11/18/2020 | 11/18/2020   |    |              |    |              |    |              |    |              |    |
| Sample Depth:         |                                   | 0-0.5        | 8-10       | 2-4          | 0-0.5      | 0-0.5        | 2-4        | 0-0.5        | 0-0.5      | 2-4          | 0-0.5      |              |    |              |    |              |    |              |    |              |    |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        |            |              |    |              |    |              |    |              |    |              |    |
| Metals                |                                   | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          |              |    |              |    |              |    |              |    |              |    |
| Aluminum              | 7700                              | <b>12000</b> |            | 4270         |            | <b>13700</b> |            | <b>10700</b> |            | 7600         |            | <b>7780</b>  |    | <b>10300</b> |    | <b>13000</b> |    | <b>8680</b>  |    | <b>16600</b> |    |
| Antimony              | 3.1                               | 1.3          | U          | 0.98         | U          | 1.1          | U          | 1.3          | U          | 1.2          | U          | 1.1          | U  | 1.3          | U  | 1.1          | U  | 1.3          | U  | 1.3          | U  |
| Arsenic               | 0.68                              | <b>5.1</b>   |            | <b>1.8</b>   |            | <b>3.6</b>   |            | <b>4.6</b>   |            | <b>13.9</b>  |            | <b>4.6</b>   |    | <b>6.4</b>   |    | <b>5.9</b>   |    | <b>4.9</b>   |    | <b>5.3</b>   |    |
| Barium                | 1500                              | 67.5         | R          | 14.8         |            | 56.5         |            | 57.2         |            | 59.6         |            | 46.5         |    | 43.6         |    | 108          |    | 48.1         |    | 180          |    |
| Beryllium             | 16                                | 0.53         | J          | 0.25         | J          | 0.41         | J          | 0.49         | J          | 0.51         | J          | 0.53         | J  | 0.44         | J  | 0.55         | J  | 0.6          |    | 0.46         | J  |
| Cadmium               | 7.1                               | 0.36         | J          | 0.49         | U          | 0.55         | U          | 0.39         | J          | 0.47         | J          | 0.25         | J  | 0.43         | J  | 0.45         | J  | 0.11         | J  | 0.32         | J  |
| Calcium               | NL                                | 2630         |            | 153          | J          | 627          |            | 2730         |            | 7820         |            | 556          | J  | 4040         |    | 5890         |    | 1210         |    | 11700        |    |
| Chromium <sup>1</sup> | 12,000                            | 30.2         |            | 8.5          |            | 15.6         |            | 26.2         |            | 25.4         |            | 20.7         |    | 19.3         |    | <b>178</b>   |    | 21.9         |    | <b>366</b>   |    |
| Cobalt                | 2.3                               | <b>7.7</b>   |            | <b>3.3</b>   |            | <b>4</b>     |            | <b>10.7</b>  |            | <b>5.7</b>   |            | <b>5</b>     |    | <b>5.8</b>   |    | <b>10.7</b>  |    | <b>5.3</b>   |    | <b>14.5</b>  |    |
| Copper                | 310                               | 46.5         |            | 4.1          |            | 20.4         |            | 54.9         |            | 42.9         |            | 13.7         |    | 30.8         |    | 32.2         |    | 12.8         |    | 28.5         |    |
| Iron                  | 5500                              | <b>22600</b> |            | <b>11500</b> |            | <b>20500</b> |            | <b>20900</b> |            | <b>14100</b> |            | <b>14600</b> |    | <b>19800</b> |    | <b>23200</b> |    | <b>23400</b> |    | <b>21400</b> |    |
| Lead                  | 400                               | 91.7         |            | 3.6          |            | <b>161</b>   |            | 85           |            | 61.3         |            | 73.8         |    | 90.5         |    | 35.3         |    | 16.1         |    | 19.7         |    |
| Magnesium             | NL                                | 2500         |            | 796          |            | 2000         |            | 2820         |            | 1870         |            | 1290         |    | 2250         |    | 5470         |    | 2250         |    | <b>16500</b> |    |
| Manganese             | 180                               | <b>309</b>   |            | 87.9         |            | 155          |            | <b>314</b>   |            | <b>270</b>   |            | <b>205</b>   |    | <b>255</b>   |    | <b>351</b>   |    | 123          |    | <b>287</b>   |    |
| Mercury               | 1.1                               | 0.13         | UJ         | 0.11         | UJ         | 0.11         | UJ         | 0.12         | UJ         | 0.16         | UJ         | 0.12         | UJ | 0.12         | UJ | 0.13         | UJ | 0.12         | UJ | 0.13         | UJ |
| Nickel                | 150                               | 14.3         |            | 4.2          |            | 7.3          |            | 17.8         |            | 11.3         |            | 9.9          |    | 10.5         |    | 31           |    | 12           |    | 57.8         |    |
| Potassium             | NL                                | 1030         |            | 281          | J          | 334          | J          | 731          |            | 752          |            | 359          | J  | 870          |    | 2310         |    | 579          |    | 5100         |    |
| Silver                | 39                                | 0.63         | UJ         | 0.49         | UJ         | 0.55         | UJ         | 0.66         | UJ         | 0.31         | J          | 0.18         | J  | 0.3          | J  | 0.51         | J  | 0.57         | U  | 0.74         |    |
| Sodium                | NL                                | 672          | U          | 524          | U          | 141          | J          | 626          | U          | 645          | U          | 613          | U  | 559          | U  | 687          | U  | 581          | U  | 616          | U  |
| Thallium              | 0.078                             | 0.63         | R          | 0.49         | U          | 0.55         | U          | 0.66         | U          | 0.61         | U          | 0.61         | U  | 0.55         | U  | 0.16         | J  | 0.57         | U  | <b>0.28</b>  | J  |
| Vanadium              | 39                                | 38.8         |            | 9.5          |            | 25.1         |            | 36.9         |            | 29.8         |            | 32.3         |    | 28.7         |    | <b>41.5</b>  |    | 32.6         |    | <b>44.9</b>  |    |
| Zinc                  | 2300                              | 114          |            | 12.2         |            | 87.8         |            | 454          |            | 108          |            | 43.6         |    | 77.1         |    | 121          |    | 33.5         |    | 93.8         |    |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-132   | NLR-SB-132 | NLR-SS-132   | NLR-CS-133 | NLR-SB-133   | NLR-SS-133 | NLR-CS-134   | NLR-SS-134 | NLR-CS-135   | NLR-SS-135 |              |  |              |  |              |  |              |  |               |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|--|--------------|--|--------------|--|--------------|--|---------------|
| CLP Sample Number:    |                                   | MCOB63       | MCOBB9     | MCOA25       | MCOB64     | MCOBC0       | MCOA26     | MCOB65       | MCOA27     | MCOB66       | MCOA28     |              |  |              |  |              |  |              |  |               |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |  |              |  |              |  |              |  |               |
| Sample Date:          |                                   | 11/18/2020   | 11/18/2020 | 11/18/2020   | 11/18/2020 | 11/18/2020   | 11/18/2020 | 11/11/2020   | 11/11/2020 | 11/11/2020   | 11/11/2020 |              |  |              |  |              |  |              |  |               |
| Sample Depth:         |                                   | 0-0.5        | 2-4        | 0-0.5        | 0-0.5      | 2-4          | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      |              |  |              |  |              |  |              |  |               |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        |            |              |  |              |  |              |  |              |  |               |
| Metals                |                                   | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          |              |  |              |  |              |  |              |  |               |
| Aluminum              | 7700                              | <b>9200</b>  |            | <b>12200</b> |            | <b>12400</b> |            | <b>12700</b> |            | 6600         |            | <b>9630</b>  |  | <b>8910</b>  |  | <b>9650</b>  |  | <b>11200</b> |  | <b>14100</b>  |
| Antimony              | 3.1                               | 1.2 U        |            | 1.2 U        |            | 1.1 U        |            | 1.2 U        |            | 1.3 U        |            | 1 U          |  | 1.3 U        |  | 1.3 U        |  | 1.3 U        |  | 1.2 U         |
| Arsenic               | 0.68                              | <b>4.6</b>   |            | <b>3.1</b>   |            | <b>3.2</b>   |            | <b>3.9</b>   |            | <b>1.5</b>   |            | <b>2.1</b>   |  | <b>4.3</b>   |  | <b>5.1</b>   |  | <b>2.9</b>   |  | <b>3.6</b>    |
| Barium                | 1500                              | 33.6         |            | 35.3         |            | 34.4         |            | 52.5         |            | 29.2         |            | 42.2         |  | 40.6         |  | 42           |  | 53.8         |  | 77            |
| Beryllium             | 16                                | 0.48 J       |            | 0.52 J       |            | 0.49 J       |            | 0.56 J       |            | 0.35 J       |            | 0.41 J       |  | 0.51 J       |  | 0.61 J       |  | 0.62 J       |  | 0.75          |
| Cadmium               | 7.1                               | 0.14 J       |            | 0.58 U       |            | 0.15 J       |            | 0.17 J       |            | 0.63 U       |            | 0.14 J       |  | 0.63         |  | 0.41 J       |  | 0.44 J       |  | 0.12 J        |
| Calcium               | NL                                | 615          |            | 653          |            | 808          |            | 1760         |            | 191 J        |            | 1190         |  | 1920         |  | 1550         |  | 2410         |  | 576 J         |
| Chromium <sup>1</sup> | 12,000                            | 18.7         |            | 20.7         |            | 17.6         |            | 23.5         |            | 9.9          |            | 14.8         |  | 17.2         |  | 20.5         |  | 41.2         |  | 46.5          |
| Cobalt                | 2.3                               | <b>5.7</b>   |            | <b>5.4</b>   |            | <b>7.8</b>   |            | <b>7</b>     |            | <b>2.1</b>   |            | <b>4.6</b>   |  | <b>4.7</b>   |  | <b>4.6</b>   |  | <b>6.1</b>   |  | <b>9.5</b>    |
| Copper                | 310                               | 22.4         |            | 10.7         |            | 15.2         |            | 17.5         |            | 2.4          |            | 12.3         |  | 19.2         |  | 24.5         |  | 19.4         |  | 24            |
| Iron                  | 5500                              | <b>17800</b> |            | <b>18100</b> |            | <b>23600</b> |            | <b>24100</b> |            | <b>10300</b> |            | <b>18100</b> |  | <b>17400</b> |  | <b>18600</b> |  | <b>21700</b> |  | <b>24700</b>  |
| Lead                  | 400                               | 32.7         |            | 8.8          |            | 36.6         |            | 32.9         |            | 5.9          |            | 30.5         |  | 69.9         |  | 63.6         |  | 28.4         |  | 26.2          |
| Magnesium             | NL                                | 1460         |            | 2570         |            | 2070         |            | 2910         |            | 952          |            | 2110         |  | 1970         |  | 1750         |  | 3020         |  | 3750          |
| Manganese             | 180                               | <b>187</b>   |            | <b>180</b>   |            | <b>232</b>   |            | <b>285</b>   |            | 34.6         |            | 128          |  | 174          |  | 125          |  | 168          |  | 157           |
| Mercury               | 1.1                               | 0.12 UJ      |            | 0.12 UJ      |            | 0.13 U       |            | 0.13 UJ      |            | 0.13 UJ      |            | 0.11 U       |  | 0.16         |  | 0.22         |  | 0.13 U       |  | 0.11 U        |
| Nickel                | 150                               | 9.8          |            | 10.2         |            | 10.8         |            | 18.4         |            | 4.3          |            | 8.7          |  | 9.9          |  | 9.3          |  | 11.2         |  | 19.8          |
| Potassium             | NL                                | 550 J        |            | 748          |            | 685          |            | 1530         |            | 224 J        |            | 976          |  | 555 J        |  | 473 J        |  | 1320         |  | 3180          |
| Silver                | 39                                | 0.6 U        |            | 0.58 U       |            | 0.083 J      |            | 0.59 U       |            | 0.63 U       |            | 0.5 U        |  | 0.13 J       |  | 0.18 J       |  | 0.15 J       |  | 0.59 U        |
| Sodium                | NL                                | 614 U        |            | 594 U        |            | 590 U        |            | 616 U        |            | 627 U        |            | 523 U        |  | 664 U        |  | 684 U        |  | 650 U        |  | 108 J         |
| Thallium              | 0.078                             | 0.6 U        |            | 0.58 U       |            | 0.57 U       |            | 0.59 U       |            | 0.63 U       |            | 0.5 U        |  | 0.63 U       |  | 0.63 U       |  | 0.63 U       |  | <b>0.14 J</b> |
| Vanadium              | 39                                | 34.4         |            | 36.2         |            | 32.2         |            | 34.7         |            | 16.9         |            | 22.2         |  | 23.3         |  | 27.3         |  | 22.7         |  | <b>39.9</b>   |
| Zinc                  | 2300                              | 57.5         |            | 30.8         |            | 43.5         |            | 61.1         |            | 19.4         |            | 60.1         |  | 117          |  | 90           |  | 175          |  | 65.5          |

Notes:

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

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HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-136   | NLR-DB-136 | NLR-SB-136   | NLR-SS-136 | NLR-CS-137   | NLR-SB-137 | NLR-SS-137   | NLR-CS-138 | NLR-SB-138   | NLR-SS-138 |              |    |              |   |              |   |              |    |              |   |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|----|--------------|---|--------------|---|--------------|----|--------------|---|
| CLP Sample Number:    |                                   | MCOB67       | MCOB60     | MCOBC1       | MCOA29     | MCOB68       | MCOBC2     | MCOB00       | MCOB69     | MCOBH1       | MCOB01     |              |    |              |   |              |   |              |    |              |   |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |    |              |   |              |   |              |    |              |   |
| Sample Date:          |                                   | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 | 11/18/2020   | 11/18/2020 | 11/18/2020   | 11/12/2020 | 11/18/2020   | 11/12/2020 |              |    |              |   |              |   |              |    |              |   |
| Sample Depth:         |                                   | 0-0.5        | 8-10       | 8-10         | 0-0.5      | 0-0.5        | 2-4        | 0-0.5        | 0-0.5      | 2-4          | 0-0.5      |              |    |              |   |              |   |              |    |              |   |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        |            |              |    |              |   |              |   |              |    |              |   |
| Metals                |                                   | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          |              |    |              |   |              |   |              |    |              |   |
| Aluminum              | 7700                              | <b>9550</b>  |            | <b>8310</b>  |            | <b>14800</b> |            | <b>11100</b> |            | <b>8090</b>  |            | <b>9630</b>  |    | <b>11800</b> |   | <b>9300</b>  |   | <b>21300</b> |    | <b>8630</b>  |   |
| Antimony              | 3.1                               | 1.2          | U          | 1            | U          | 1.2          | U          | 1.2          | U          | 1.4          | U          | 1.1          | U  | 1.1          | U | 1.3          | U | 1.2          | U  | 1.2          | U |
| Arsenic               | 0.68                              | <b>2.6</b>   |            | <b>6.9</b>   |            | <b>2.8</b>   |            | <b>3.4</b>   |            | <b>5</b>     |            | <b>5</b>     |    | <b>2.8</b>   |   | <b>3.8</b>   |   | <b>2.9</b>   |    | <b>5</b>     |   |
| Barium                | 1500                              | 39           |            | 24.4         |            | 34.4         |            | 44.5         |            | 54.1         |            | 69.9         |    | 45.7         |   | 42.9         |   | 68.5         |    | 41.8         |   |
| Beryllium             | 16                                | 0.45         | J          | 0.48         | J          | 0.69         |            | 0.59         | J          | 0.61         | J          | 0.97         |    | 0.43         | J | 0.65         | U | 0.42         | J  | 0.62         | U |
| Cadmium               | 7.1                               | 0.2          | J          | 0.071        | J          | 0.62         | U          | 0.23         | J          | 0.22         | J          | 0.13         | J  | 0.095        | J | 0.65         | U | 0.61         | U  | 0.62         | U |
| Calcium               | NL                                | 2290         |            | 271          | J          | 723          |            | 2460         |            | 2640         |            | 1640         |    | 1700         |   | 2220         |   | 1140         |    | 1310         |   |
| Chromium <sup>1</sup> | 12,000                            | 13.5         |            | 12.7         |            | 18.4         |            | 17.3         |            | 23.1         |            | 22.4         |    | 16.5         |   | 17.4         |   | 26           |    | 14.5         |   |
| Cobalt                | 2.3                               | <b>3.7</b>   |            | <b>6.3</b>   |            | <b>10.7</b>  |            | <b>6.7</b>   |            | <b>7.2</b>   |            | <b>12.4</b>  |    | <b>4.8</b>   |   | <b>5.3</b>   |   | <b>1.7</b>   |    | <b>4.5</b>   |   |
| Copper                | 310                               | 11           |            | 6.5          |            | 10.3         |            | 14           |            | 17.6         |            | 14.1         |    | 10.6         |   | 18.9         |   | 8.7          |    | 16           |   |
| Iron                  | 5500                              | <b>18100</b> |            | <b>29700</b> |            | <b>27800</b> |            | <b>21200</b> |            | <b>18700</b> |            | <b>24000</b> |    | <b>19300</b> |   | <b>16700</b> |   | <b>12100</b> |    | <b>16200</b> |   |
| Lead                  | 400                               | 29.5         |            | 5.3          |            | 8.1          |            | 35.1         |            | 31.8         |            | 8.9          |    | 26.6         |   | 44.3         |   | 11.4         |    | 38.9         |   |
| Magnesium             | NL                                | 1970         |            | 1900         |            | 2670         |            | 2400         |            | 1740         |            | 2140         |    | 1890         |   | 2010         |   | 1260         |    | 1690         |   |
| Manganese             | 180                               | 127          |            | <b>242</b>   |            | <b>617</b>   |            | <b>288</b>   |            | <b>329</b>   |            | 175          |    | 170          |   | 157          |   | 17.2         |    | 145          |   |
| Mercury               | 1.1                               | 0.14         | U          | 0.11         | U          | 0.12         | U          | 0.13         | U          | 0.14         | UJ         | 0.12         | UJ | 0.12         | U | 0.054        | J | 0.12         | UJ | 0.068        | J |
| Nickel                | 150                               | 7.5          |            | 7.5          |            | 9.2          |            | 9.2          |            | 13.6         |            | 16.9         |    | 8.9          |   | 11.8         |   | 5            |    | 9.6          |   |
| Potassium             | NL                                | 637          | J          | 695          |            | 912          |            | 529          | J          | 949          |            | 648          |    | 508          | J | 893          |   | 580          | J  | 721          |   |
| Silver                | 39                                | 0.088        | J          | 0.51         | U          | 0.62         | U          | 0.6          | U          | 0.68         | U          | 0.53         | U  | 0.54         | U | 0.65         | U | 0.61         | U  | 0.62         | U |
| Sodium                | NL                                | 684          | U          | 559          | U          | 602          | U          | 621          | U          | 644          | U          | 598          | U  | 572          | U | 615          | U | 133          | J  | 607          | U |
| Thallium              | 0.078                             | 0.62         | U          | 0.51         | U          | 0.62         | U          | 0.6          | U          | 0.68         | U          | 0.53         | U  | 0.54         | U | 0.65         | U | 0.61         | U  | 0.62         | U |
| Vanadium              | 39                                | 25.4         |            | 21.3         |            | 36.3         |            | 33.9         |            | 37.7         |            | 35.5         |    | 25.9         |   | 25.5         |   | <b>46</b>    |    | 23.2         |   |
| Zinc                  | 2300                              | 52.9         |            | 25           |            | 27.5         |            | 50           |            | 52.3         |            | 42           |    | 36.8         |   | 70           |   | 20.4         |    | 56.9         |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-139   | NLR-SB-139   | NLR-SS-139   | NLR-CS-140   | NLR-SS-140   | NLR-CS-141   | NLR-CS-141-01 | NLR-SB-141   | NLR-SB-141-01 | NLR-SS-141   | NLR-SS-141-01 |            |   |        |   |
|-----------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|--------------|---------------|------------|---|--------|---|
| CLP Sample Number:    |                                   | MC0B70       | MC0BC3       | MC0B02       | MC0B71       | MC0B03       | MC0B72       | MC0BH4        | MC0BC4       | MC0BH3        | MC0B04       | MC0BH2        |            |   |        |   |
| Units:                |                                   | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg         | mg/kg        | mg/kg         | mg/kg        | mg/kg         | mg/kg      |   |        |   |
| Sample Date:          |                                   | 11/18/2020   | 11/18/2020   | 11/18/2020   | 11/12/2020   | 11/12/2020   | 11/18/2020   | 11/18/2020    | 11/18/2020   | 11/18/2020    | 11/18/2020   | 11/18/2020    | 11/18/2020 |   |        |   |
| Sample Depth:         |                                   | 0-0.5        | 2-4          | 0-0.5        | 0-0.5        | 0-0.5        | 0-0.5        | 0-0.5         | 0-0.5        | 2-4           | 2-4          | 0-0.5         | 0-0.5      |   |        |   |
| Sample Type:          | Field                             | Field        | Field        | Field        | Field        | Field        | Field        | Duplicate     | Field        | Duplicate     | Field        | Duplicate     |            |   |        |   |
| Metals                | Result                            | Q            | Result       | Q            | Result       | Q            | Result       | Q             | Result       | Q             | Result       | Q             | Result     | Q | Result | Q |
| Aluminum              | 7700                              | <b>9080</b>  | <b>8710</b>  | <b>9500</b>  | <b>8000</b>  | <b>8800</b>  | <b>9520</b>  | <b>9460</b>   | <b>12300</b> | <b>12400</b>  | <b>12700</b> | <b>14500</b>  |            |   |        |   |
| Antimony              | 3.1                               | 1.4 U        | 1.1 U        | 1.1 U        | 1.3 U        | 1.4 U        | 1.4 U        | 1.3 U         | 1.1 U        | 1.1 U         | 1.2 U        | 1.2 U         |            |   |        |   |
| Arsenic               | 0.68                              | <b>3.6</b>   | <b>4.3</b>   | <b>2.9</b>   | <b>18.7</b>  | <b>12.9</b>  | <b>5</b>     | <b>4.3</b>    | <b>4.3</b>   | <b>2.8</b>    | <b>4.2</b>   | <b>3.5</b>    |            |   |        |   |
| Barium                | 1500                              | 41.6         | 55.4         | 43           | 46.4         | 41.6         | 48.4         | 48.1          | 36.2         | 32            | 43.6         | 38.1          |            |   |        |   |
| Beryllium             | 16                                | 0.44 J       | 0.7          | 0.41 J       | 0.66 U       | 0.72 U       | 0.51 J       | 0.42 J        | 0.56 J       | 0.5 J         | 0.55 J       | 0.46 J        |            |   |        |   |
| Cadmium               | 7.1                               | 0.25 J       | 0.16 J       | 0.29 J       | 1.6          | 0.72 U       | 0.31 J       | 0.39 J        | 0.57 U       | 0.55 U        | 0.58 U       | 0.59 U        |            |   |        |   |
| Calcium               | NL                                | 2730         | 812          | 1780         | 3760         | 2450         | 1980         | 2250          | 789          | 663           | 889          | 762           |            |   |        |   |
| Chromium <sup>1</sup> | 12,000                            | 16.6         | 23.7         | 13.9         | 23.1         | 19.8         | 15.5         | 16.4          | 21.4         | 17.7          | 22.1         | 18.8          |            |   |        |   |
| Cobalt                | 2.3                               | <b>4.5</b>   | <b>5.2</b>   | <b>4.4</b>   | <b>4.3</b>   | <b>4.3</b>   | <b>4.6</b>   | <b>5</b>      | <b>6.3</b>   | <b>6</b>      | <b>6.1</b>   | <b>4.3</b>    |            |   |        |   |
| Copper                | 310                               | 15.2         | 14           | 14.8         | 31.1         | 23.6         | 17.7         | 16.8          | 11.5         | 10            | 11.2         | 9.1           |            |   |        |   |
| Iron                  | 5500                              | <b>17100</b> | <b>13200</b> | <b>17900</b> | <b>17400</b> | <b>15700</b> | <b>18800</b> | <b>17800</b>  | <b>25100</b> | <b>23100</b>  | <b>21700</b> | <b>24200</b>  |            |   |        |   |
| Lead                  | 400                               | 40.1         | 6.6          | 40.8         | 68.9         | 64.4         | 49.4         | 52.9          | 8.5          | 8.4           | 25.9         | 21.6          |            |   |        |   |
| Magnesium             | NL                                | 1650         | 2280         | 1650         | 1880         | 1780         | 2020         | 2020          | 2330         | 2330          | 1880         | 1970          |            |   |        |   |
| Manganese             | 180                               | 162          | 50.1         | 151          | 169          | 142          | <b>210</b>   | <b>214</b>    | <b>214</b>   | <b>180</b>    | 139          | 97.1          |            |   |        |   |
| Mercury               | 1.1                               | 0.14 UJ      | 0.12 UJ      | 0.13 U       | 0.16         | 0.12 J       | 0.13         | 0.13 U        | 0.11 UJ      | 0.11 U        | 0.12 U       | 0.12 U        |            |   |        |   |
| Nickel                | 150                               | 9.2          | 15.5         | 8.7          | 30.9         | 11.6         | 9            | 10.5          | 10.5 J       | 9.3           | 10.2         | 8.3           |            |   |        |   |
| Potassium             | NL                                | 513 J        | 608          | 482 J        | 512 J        | 586 J        | 966          | 761           | 788          | 716           | 554 J        | 561 J         |            |   |        |   |
| Silver                | 39                                | 0.7 U        | 0.53 U       | 0.11 J       | 0.66 U       | 0.72 U       | 0.11 J       | 0.097 J       | 0.57 U       | 0.55 U        | 0.58 UJ      | 0.59 U        |            |   |        |   |
| Sodium                | NL                                | 704 U        | 570 U        | 560 U        | 690 U        | 693 U        | 677 U        | 640 U         | 579 U        | 533 U         | 565 U        | 575 U         |            |   |        |   |
| Thallium              | 0.078                             | 0.7 U        | 0.53 U       | 0.57 U       | 0.66 U       | 0.72 U       | 0.68 U       | 0.66 U        | 0.57 U       | 0.55 U        | 0.58 U       | 0.59 U        |            |   |        |   |
| Vanadium              | 39                                | 28.3         | 31.3         | 25.2         | 21.5         | 23.2         | 29.8 J       | 28.4          | 37.9 J       | 31.5          | 36.4         | 30.7          |            |   |        |   |
| Zinc                  | 2300                              | 98.9         | 44.8         | 107          | 133          | 98.6         | 113          | 135           | 28.1         | 26.4          | 38.9         | 32.8          |            |   |        |   |

Notes:

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

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U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-142   | NLR-SS-142 | NLR-CS-143   | NLR-DB-143 | NLR-SB-143   | NLR-SS-143 | NLR-CS-144   | NLR-SS-144 | NLR-CS-145   | NLR-SS-145 |              |   |              |   |              |   |              |   |              |   |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---|--------------|---|--------------|---|--------------|---|--------------|---|
| CLP Sample Number:    |                                   | MC0B73       | MC0B05     | MC0B74       | MC0BE1     | MC0BC5       | MC0B06     | MC0B75       | MC0B07     | MC0B76       | MC0B08     |              |   |              |   |              |   |              |   |              |   |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      |              |   |              |   |              |   |              |   |              |   |
| Sample Date:          |                                   | 11/12/2020   | 11/12/2020 | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/12/2020 | 11/12/2020   | 11/12/2020 | 11/12/2020   |   |              |   |              |   |              |   |              |   |
| Sample Depth:         |                                   | 0-0.5        | 0-0.5      | 0-0.5        | 8-10       | 2-4          | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        |   |              |   |              |   |              |   |              |   |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      |              |   |              |   |              |   |              |   |              |   |
| Metals                |                                   | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q | Result       | Q |              |   |              |   |              |   |
| Aluminum              | 7700                              | <b>9310</b>  |            | <b>9850</b>  |            | <b>9340</b>  |            | <b>11000</b> |            | <b>14700</b> |            | <b>11100</b> |   | <b>9520</b>  |   | <b>9030</b>  |   | <b>11300</b> |   | <b>8970</b>  |   |
| Antimony              | 3.1                               | 1.3          | U          | 1.3          | U          | 1.4          | U          | 1.2          | U          | 0.96         | U          | 1.2          | U | 1.2          | U | 1.2          | U | 1.3          | U | 1.3          | U |
| Arsenic               | 0.68                              | <b>6.9</b>   |            | <b>4.5</b>   |            | <b>4</b>     |            | <b>4.9</b>   |            | <b>3.1</b>   |            | <b>3.7</b>   |   | <b>4.8</b>   |   | <b>5.6</b>   |   | <b>3.8</b>   |   | <b>8.5</b>   |   |
| Barium                | 1500                              | 47.1         |            | 37.5         |            | 47.5         |            | 50.5         |            | 38.8         |            | 38.4         |   | 39           |   | 43.2         |   | 60.7         |   | 42.1         |   |
| Beryllium             | 16                                | 0.63         | U          | 0.64         | U          | 0.5          | J          | 0.88         |            | 0.56         |            | 0.6          | J | 0.62         | U | 0.6          | U | 0.66         | U | 0.64         | U |
| Cadmium               | 7.1                               | 0.63         | U          | 0.64         | U          | 0.92         |            | 0.098        | J          | 0.11         | J          | 0.19         | J | 0.62         | U | 0.81         |   | 0.66         | U | 0.64         | U |
| Calcium               | NL                                | 4040         |            | 1530         |            | 4560         |            | 804          |            | 1060         |            | 1660         |   | 1810         |   | 2780         |   | 7680         |   | 3230         |   |
| Chromium <sup>1</sup> | 12,000                            | 17.5         |            | 16.9         |            | 34.3         |            | 22.3         |            | 16.2         |            | 16.8         |   | 16.3         |   | 19.9         |   | 17.8         |   | 17.4         |   |
| Cobalt                | 2.3                               | <b>4.8</b>   |            | <b>6</b>     |            | <b>5.2</b>   |            | <b>5.6</b>   |            | <b>5.8</b>   |            | <b>6</b>     |   | <b>5.6</b>   |   | <b>5.8</b>   |   | <b>5.4</b>   |   | <b>4.9</b>   |   |
| Copper                | 310                               | 23.8         |            | 50.1         |            | 36           |            | 12.5         |            | 9            |            | 13.6         |   | 74.7         |   | 25.2         |   | 27.1         |   | 30.8         |   |
| Iron                  | 5500                              | <b>30400</b> |            | <b>20100</b> |            | <b>17900</b> |            | <b>20200</b> |            | <b>24500</b> |            | <b>20400</b> |   | <b>18700</b> |   | <b>18400</b> |   | <b>20900</b> |   | <b>17400</b> |   |
| Lead                  | 400                               | 71.2         |            | 157          |            | 58.4         |            | 7            |            | 16.1         |            | 39           |   | 45.5         |   | 54.3         |   | 73.6         |   | 65.3         |   |
| Magnesium             | NL                                | 2510         |            | 1840         |            | 2360         |            | 2790         |            | 2410         |            | 2120         |   | 1990         |   | 2060         |   | 3990         |   | 1940         |   |
| Manganese             | 180                               | <b>255</b>   |            | 141          |            | <b>230</b>   |            | <b>360</b>   |            | <b>268</b>   |            | <b>266</b>   |   | <b>209</b>   |   | <b>225</b>   |   | <b>212</b>   |   | 169          |   |
| Mercury               | 1.1                               | 0.06         | J          | 0.09         | J          | 0.23         |            | 0.12         | U          | 0.11         | U          | 0.13         | U | 0.092        | J | 0.13         |   | 0.084        | J | 0.077        | J |
| Nickel                | 150                               | 10.3         |            | 11.9         |            | 13.6         |            | 12.1         |            | 6.9          |            | 8.1          |   | 10           |   | 11.8         |   | 12           |   | 9.8          |   |
| Potassium             | NL                                | 794          |            | 833          |            | 969          |            | 872          |            | 849          |            | 1160         |   | 909          |   | 1020         |   | 1040         |   | 611          | J |
| Silver                | 39                                | 1.3          | U          | 0.64         | U          | 1.4          |            | 0.6          | U          | 0.48         | U          | 0.11         | J | 0.62         | U | 0.6          | U | 0.66         | U | 0.64         | U |
| Sodium                | NL                                | 680          | U          | 682          | U          | 645          | U          | 101          | J          | 130          | J          | 617          | U | 670          | U | 617          | U | 712          | U | 672          | U |
| Thallium              | 0.078                             | 0.63         | U          | 0.64         | U          | 0.68         | U          | 0.6          | U          | 0.48         | U          | 0.61         | U | 0.62         | U | 0.6          | U | 0.66         | U | 0.64         | U |
| Vanadium              | 39                                | 21.3         |            | 32.6         |            | 29.5         |            | <b>43.1</b>  |            | 31.2         |            | 30.3         |   | 25.2         |   | 26.4         |   | 25.7         |   | 23.5         |   |
| Zinc                  | 2300                              | 131          |            | 174          |            | 156          |            | 32           |            | 46.8         |            | 56.4         |   | 137          |   | 170          |   | 98.3         |   | 126          |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk



Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            |                                   | NLR-CS-146 | NLR-DB-146-01 | NLR-DB-146 | NLR-SB-146 | NLR-SS-146 | NLR-CS-147 | NLR-DB-147 | NLR-SB-147 | NLR-SS-147 | NLR-CS-148 | NLR-CS-148-01 | NLR-SS-148 | NLR-SS-148-01 |    |       |    |       |    |       |   |       |   |       |   |       |   |
|-----------------------|-----------------------------------|------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|------------|---------------|----|-------|----|-------|----|-------|---|-------|---|-------|---|-------|---|
| CLP Sample Number:    | EPA RSL<br>Residential<br>(mg/kg) | MC0B77     | MC0BH7        | MC0BE2     | MC0BC6     | MC0B09     | MC0B78     | MC0BE3     | MC0BC7     | MC0B10     | MC0B79     | MC0BF6        | MC0B11     | MC0BF7        |    |       |    |       |    |       |   |       |   |       |   |       |   |
| Units:                |                                   | mg/kg      | mg/kg         | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg      | mg/kg         | mg/kg      | mg/kg         |    |       |    |       |    |       |   |       |   |       |   |       |   |
| Sample Date:          |                                   | 11/19/2020 | 11/19/2020    | 11/19/2020 | 11/19/2020 | 11/19/2020 | 12/2/2020  | 11/19/2020 | 11/19/2020 | 12/2/2020  | 11/12/2020 | 11/12/2020    | 11/12/2020 | 11/12/2020    |    |       |    |       |    |       |   |       |   |       |   |       |   |
| Sample Depth:         |                                   | 0-0.5      | 8-10          | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 8-10       | 2-4        | 0-0.5      | 0-0.5      | 0-0.5         | 0-0.5      | 0-0.5         |    |       |    |       |    |       |   |       |   |       |   |       |   |
| Sample Type:          |                                   | Field      | Duplicate     | Field      | Field      | Field      | Field      | Field      | Field      | Field      | Duplicate  | Duplicate     | Field      | Duplicate     |    |       |    |       |    |       |   |       |   |       |   |       |   |
| Metals                |                                   | Result     | Q             | Result     | Q          | Result     | Q          | Result     | Q          | Result     | Q          | Result        | Q          | Result        | Q  |       |    |       |    |       |   |       |   |       |   |       |   |
| Aluminum              | 7700                              | 13400      |               | 10900      |            | 13200      |            | 11000      |            | 11100      |            | 9700          |            | 4120          |    | 11400 |    | 10600 |    | 9730  |   | 8750  |   | 9020  |   | 8840  |   |
| Antimony              | 3.1                               | 1.2        | U             | 1.1        | U          | 1.2        | U          | 1.3        | U          | 1.1        | U          | 1.3           | U          | 1             | U  | 2.4   | U  | 1.3   | U  | 1.2   | U | 1.2   | U | 1.2   | U | 1.2   | U |
| Arsenic               | 0.68                              | 5.1        |               | 3.8        |            | 2.2        |            | 3.3        |            | 4.7        |            | 4.5           |            | 1.5           |    | 2.5   |    | 3.8   |    | 4.5   |   | 4.9   |   | 4     |   | 4     |   |
| Barium                | 1500                              | 44.1       |               | 46.6       |            | 29.3       |            | 44.7       |            | 46.8       |            | 56.2          | R          | 14.9          |    | 66.5  |    | 41.3  |    | 50.1  |   | 74.1  |   | 44.5  |   | 42.9  |   |
| Beryllium             | 16                                | 0.56       | J             | 0.55       |            | 0.58       | J          | 0.6        | J          | 0.62       |            | 0.65          |            | 0.3           | J  | 0.56  | J  | 0.51  | J  | 0.61  | U | 0.69  |   | 0.62  | U | 0.58  | U |
| Cadmium               | 7.1                               | 0.18       | J             | 0.084      | J          | 0.6        | U          | 0.18       | J          | 0.083      | J          | 0.25          | J          | 0.5           | U  | 0.6   | U  | 0.65  | U  | 0.61  | U | 0.61  | U | 0.62  | U | 0.58  | U |
| Calcium               | NL                                | 1980       |               | 789        |            | 556        | J          | 1480       |            | 829        |            | 1480          |            | 141           | J  | 631   |    | 1150  |    | 2040  |   | 2140  |   | 1770  |   | 1540  |   |
| Chromium <sup>1</sup> | 12,000                            | 46.1       |               | 24.6       |            | 15.4       |            | 16.8       |            | 25.7       |            | 31.5          |            | 10            |    | 17.9  |    | 19.2  |    | 16.1  |   | 22.7  |   | 21    |   | 14.8  |   |
| Cobalt                | 2.3                               | 8.4        |               | 7.1        |            | 6.6        |            | 5.8        |            | 4.6        |            | 9.9           |            | 3.6           |    | 19    |    | 7.4   |    | 4.8   |   | 7.1   |   | 6.2   |   | 6.8   |   |
| Copper                | 310                               | 11.8       |               | 13.1       |            | 11.3       |            | 12.1       |            | 10.7       |            | 21.6          |            | 4.5           |    | 9.4   |    | 13.9  |    | 14.9  |   | 14.7  |   | 13.5  | J | 13.9  |   |
| Iron                  | 5500                              | 22600      |               | 15400      |            | 26400      |            | 22500      |            | 15200      |            | 19800         |            | 10800         |    | 22800 |    | 21300 |    | 18200 |   | 16100 |   | 17600 | J | 19100 |   |
| Lead                  | 400                               | 16.3       |               | 7.5        |            | 7          |            | 26.4       |            | 8.5        |            | 47.4          |            | 3.6           |    | 12.1  |    | 30.2  |    | 50.9  |   | 45.4  |   | 54.7  |   | 39.3  |   |
| Magnesium             | NL                                | 8320       |               | 2750       |            | 2630       |            | 2450       |            | 2360       |            | 2260          |            | 1020          |    | 2360  |    | 2370  |    | 2070  |   | 2180  |   | 1920  |   | 1810  |   |
| Manganese             | 180                               | 176        |               | 223        |            | 260        |            | 285        |            | 119        |            | 358           |            | 280           |    | 2060  |    | 270   |    | 214   |   | 322   |   | 202   |   | 170   |   |
| Mercury               | 1.1                               | 0.12       | U             | 0.12       | UJ         | 0.12       | U          | 0.14       | U          | 0.11       | UJ         | 0.13          | UJ         | 0.1           | UJ | 0.11  | UJ | 0.13  | UJ | 0.055 | J | 0.061 | J | 0.05  | J | 0.063 | J |
| Nickel                | 150                               | 17.1       |               | 12.9       |            | 7.6        |            | 8.9        |            | 12.3       |            | 15.4          |            | 5.9           |    | 12.4  |    | 12.1  |    | 10.7  |   | 13.6  |   | 9.3   |   | 8.5   |   |
| Potassium             | NL                                | 1400       |               | 892        |            | 881        |            | 719        |            | 635        |            | 846           |            | 311           | J  | 667   |    | 591   | J  | 675   |   | 956   |   | 571   | J | 504   | J |
| Silver                | 39                                | 0.6        | U             | 0.54       | U          | 0.6        | U          | 0.65       | U          | 0.53       | U          | 0.63          | UJ         | 0.5           | UJ | 0.6   | UJ | 0.65  | UJ | 0.61  | U | 0.61  | U | 0.62  | U | 0.58  | U |
| Sodium                | NL                                | 634        | U             | 586        | U          | 597        | U          | 695        | U          | 549        | U          | 628           | U          | 504           | U  | 583   | U  | 652   | U  | 630   | U | 621   | U | 609   | U | 606   | U |
| Thallium              | 0.078                             | 0.6        | U             | 0.54       | U          | 0.6        | U          | 0.65       | U          | 0.53       | U          | 0.63          | R          | 0.5           | U  | 1.2   | U  | 0.65  | U  | 0.61  | U | 0.61  | U | 0.62  | U | 0.58  | U |
| Vanadium              | 39                                | 32.9       |               | 36.4       |            | 32.5       |            | 33.5       |            | 32.2       |            | 46.8          |            | 9.5           |    | 30.8  |    | 36    |    | 28.1  |   | 36.2  |   | 27.2  |   | 25.7  |   |
| Zinc                  | 2300                              | 79.5       |               | 40.4       |            | 25.6       |            | 57         |            | 37         |            | 98.5          |            | 17.3          |    | 30.9  |    | 57.4  |    | 82.2  |   | 160   |   | 53.2  |   | 49.3  |   |

Notes:

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

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Unshaded columns are grab surface soil samples

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-149   | NLR-SS-149 | NLR-CS-150   | NLR-SS-150 | NLR-CS-151   | NLR-SS-151 | NLR-CS-152   | NLR-SS-152 | NLR-CS-153   | NLR-SS-153 | NLR-CS-154   | NLR-SS-154 | NLR-CS-155   | NLR-SS-155 |              |        |                |        |              |  |              |  |              |  |              |  |              |  |
|-----------------------|-----------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|--------|----------------|--------|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--|
| CLP Sample Number:    |                                   | MC0B80       | MC0B12     | MC0B81       | MC0B13     | MC0B82       | MC0B14     | MC0B83       | MC0B15     | MC0B84       | MC0B16     | MC0B85       | MC0B17     | MC0B86       | MC0B18     |              |        |                |        |              |  |              |  |              |  |              |  |              |  |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        |        |                |        |              |  |              |  |              |  |              |  |              |  |
| Sample Date:          |                                   | 11/16/2020   | 11/16/2020 | 11/16/2020   | 11/16/2020 | 11/16/2020   | 11/16/2020 | 11/16/2020   | 11/16/2020 | 11/16/2020   | 11/16/2020 | 11/16/2020   | 11/16/2020 | 11/16/2020   | 11/16/2020 | 11/16/2020   |        |                |        |              |  |              |  |              |  |              |  |              |  |
| Sample Depth:         |                                   | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        |        |                |        |              |  |              |  |              |  |              |  |              |  |
| Sample Type:          | Field                             | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      | Field        | Field      |              |        |                |        |              |  |              |  |              |  |              |  |              |  |
| Metals                | Result                            | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result     | Q            | Result | Q              | Result | Q            |  |              |  |              |  |              |  |              |  |
| Aluminum              | 7700                              | <b>9570</b>  |            | <b>10500</b> |            | <b>8270</b>  |            | <b>8100</b>  |            | 6220         |            | 7680         |            | 6900         |            | <b>8490</b>  |        | <b>9350</b>    |        | 6690         |  | <b>8770</b>  |  | <b>8940</b>  |  | <b>10100</b> |  | <b>8900</b>  |  |
| Antimony              | 3.1                               | 1.4 U        |            | 2            |            | 1.4 U        |            | 1.4 U        |            | 1.3 U        |            | 1.4 U        |            | 1.2 U        |            | 1.4 U        |        | 1.4 U          |        | 1.5 U        |  | 1.3 U        |  | 1.3 U        |  | 1.3 U        |  | 1.4 U        |  |
| Arsenic               | 0.68                              | <b>4.6</b>   |            | <b>4</b>     |            | <b>8</b>     |            | <b>7.1</b>   |            | <b>3.5</b>   |            | <b>4.2</b>   |            | <b>3.8</b>   |            | <b>8.7</b>   |        | <b>7.8</b>     |        | <b>10.1</b>  |  | <b>3.6</b>   |  | <b>3.2</b>   |  | <b>7.8</b>   |  | <b>10.9</b>  |  |
| Barium                | 1500                              | 47.9         |            | 46.7         |            | 58.7         |            | 67.4         |            | 40.9         |            | 45.4         |            | 43.5         |            | 46.2         |        | 65.4           |        | 85.6         |  | 78.5         |  | 96.8         |  | 65.9         |  | 66.9         |  |
| Beryllium             | 16                                | 0.74         |            | 0.61 J       |            | 0.55 J       |            | 0.53 J       |            | 0.38 J       |            | 0.49 J       |            | 0.39 J       |            | 0.4 J        |        | 0.44 J         |        | 0.46 J       |  | 0.54 J       |  | 0.53 J       |  | 0.66 J       |  | 0.59 J       |  |
| Cadmium               | 7.1                               | 0.51 J       |            | 0.54 J       |            | 0.34 J       |            | 0.5 J        |            | 0.39 J       |            | 0.46 J       |            | 0.32 J       |            | 0.36 J       |        | 0.79           |        | 0.7          |  | 1.1          |  | 0.74         |  | 0.34 J       |  | 0.35 J       |  |
| Calcium               | NL                                | 8010         |            | <b>26900</b> |            | 3200         |            | 4820         |            | 2550         |            | 2050         |            | 1940         |            | 3130         |        | 4990           |        | 9450         |  | 3400         |  | 4590         |  | 3780         |  | 3820         |  |
| Chromium <sup>1</sup> | 12,000                            | 18.4         |            | 27.5         |            | 15.9         |            | 14.9         |            | 12.2         |            | 14.3         |            | 11.7         |            | 11.9         |        | 24.8           |        | 29.1         |  | 35           |  | 56.4         |  | 26.4         |  | 32.5         |  |
| Cobalt                | 2.3                               | 5.7          |            | <b>4.7</b>   |            | <b>5.5</b>   |            | <b>5.3</b>   |            | <b>3.4</b>   |            | <b>4.6</b>   |            | <b>3.3</b>   |            | <b>3.9</b>   |        | <b>4.8</b>     |        | <b>5.7</b>   |  | <b>5.2</b>   |  | <b>10.1</b>  |  | 5            |  | <b>4</b>     |  |
| Copper                | 310                               | 21.8         |            | 29.1         |            | 26.5         |            | 31.3         |            | 15.9         |            | 18.7         |            | 14.9         |            | 14.7         |        | 33.1           |        | 35           |  | 45.1         |  | 55.7         |  | 32.5         |  | 28.6         |  |
| Iron                  | 5500                              | <b>17100</b> |            | <b>18600</b> |            | <b>15900</b> |            | <b>15200</b> |            | <b>14900</b> |            | <b>15100</b> |            | <b>12500</b> |            | <b>18600</b> |        | <b>19300</b>   |        | <b>17500</b> |  | <b>16600</b> |  | <b>18500</b> |  | <b>17100</b> |  | <b>15600</b> |  |
| Lead                  | 400                               | 106          |            | 109          |            | 91.6         |            | 95.6         |            | 38.9         |            | 40.8         |            | 82.6         |            | 55.7         |        | 151            |        | <b>420</b>   |  | 101          |  | 50.9         |  | 56.2         |  | 55.6         |  |
| Magnesium             | NL                                | 1870         |            | 3040         |            | 1590         |            | 1710         |            | 1570         |            | 1810         |            | 1140         |            | 1690         |        | 1980           |        | 2180         |  | 2300         |  | 3330         |  | 2080         |  | 2180         |  |
| Manganese             | 180                               | <b>184</b>   |            | 161          |            | <b>310</b>   |            | <b>326</b>   |            | 99.1         |            | 101          |            | 130          |            | <b>324</b>   |        | <b>342</b>     |        | <b>280</b>   |  | <b>187</b>   |  | <b>187</b>   |  | <b>368</b>   |  | <b>313</b>   |  |
| Mercury               | 1.1                               | 0.13 UJ      |            | 0.13 UJ      |            | 0.13 UJ      |            | 0.14 UJ      |            | 0.13 UJ      |            | 0.13 UJ      |            | 0.13 UJ      |            | 0.15 UJ      |        | 0.13 U         |        | 0.12 UJ      |  | 0.28         |  | 0.14 UJ      |  | 0.13 UJ      |  | 0.13         |  |
| Nickel                | 150                               | 12.9         |            | 13.3         |            | 10           |            | 10.8         |            | 8.7          |            | 24.3         |            | 7.1          |            | 6.9          |        | 10.8           |        | 10.9         |  | 18.3         |  | 26           |  | 11           |  | 10.4         |  |
| Potassium             | NL                                | 530 J        |            | 649          |            | 327 J        |            | 276 J        |            | 814          |            | 959          |            | 349 J        |            | 413 J        |        | 818            |        | 646          |  | 600 J        |  | 894          |  | 662          |  | 640 J        |  |
| Silver                | 39                                | 0.18 J       |            | 0.2 J        |            | 0.14 J       |            | 0.13 J       |            | 0.42 J       |            | 0.46 J       |            | 0.094 J      |            | 0.85 U       |        | 0.2 J          |        | 0.12 J       |  | 1.8          |  | 0.25 J       |  | 1.1          |  | 1.5          |  |
| Sodium                | NL                                | 655 U        |            | 186 J        |            | 663 U        |            | 667 U        |            | 677 U        |            | 618 U        |            | 677 U        |            | 827 U        |        | 113 J          |        | 599 U        |  | 700 U        |  | 710 U        |  | 650 U        |  | 660 U        |  |
| Thallium              | 0.078                             | 0.69 U       |            | 0.68 U       |            | 0.68 U       |            | 0.69 U       |            | 0.68 U       |            | 0.64 U       |            | 0.68 U       |            | 0.85 U       |        | <b>0.091</b> J |        | 0.62 U       |  | 0.71 U       |  | 0.74 U       |  | 0.67 U       |  | 0.68 U       |  |
| Vanadium              | 39                                | <b>33.8</b>  |            | 31.1         |            | 25.3         |            | 23.3         |            | 16.9         |            | 22.5         |            | 19.8         |            | 22.7         |        | 21.9           |        | 19.8         |  | 24.9         |  | <b>48.1</b>  |  | 25.5         |  | 23.7         |  |
| Zinc                  | 2300                              | 139          |            | 174          |            | 117          |            | 137          |            | 85.4         |            | 103          |            | 66.8         |            | 111          |        | 157            |        | 190          |  | 211          |  | 364          |  | 89.4         |  | 90.1         |  |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III  
Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

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CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-100   | NLR-SB-100   | NLR-SS-100   | NLR-CS-156   | NLR-DB-156   | NLR-SB-156   | NLR-SS-156   | NLR-CS-157   | NLR-SB-157   | NLR-SS-157   | NLR-CS-158   | NLR-SS-158   |           |
|-----------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|
| CLP Sample Number:    |                                   | MC0B31       | MC0BA0       | MC0AW3       | MC0B87       | MC0BE4       | MC0BC8       | MC0B19       | MC0B88       | MC0BC9       | MC0B20       | MC0B89       | MC0B21       |           |
| Units:                |                                   | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        |           |
| Sample Date:          |                                   | 11/17/2020   | 11/17/2020   | 11/17/2020   | 11/19/2020   | 11/19/2020   | 11/19/2020   | 11/19/2020   | 11/19/2020   | 11/19/2020   | 11/19/2020   | 11/19/2020   | 12/2/2020    | 12/2/2020 |
| Sample Depth:         |                                   | 0-0.5        | 2-4          | 0-0.5        | 0-0.5        | 8-10         | 2-4          | 0-0.5        | 0-0.5        | 2-4          | 0-0.5        | 0-0.5        | 0-0.5        | 0-0.5     |
| Sample Type:          | Background                        | Background   | Background   | Background   | Background   | Background   | Background   | Background   | Background   | Background   | Background   | Background   | Background   |           |
| Metals                | Result                            | Q            | Result       | Q            | Result       | Q            | Result       | Q            | Result       | Q            | Result       | Q            | Result       | Q         |
| Aluminum              | 7700                              | <b>8930</b>  | <b>15300</b> | <b>8970</b>  | <b>9750</b>  | <b>10600</b> | <b>10200</b> | <b>8760</b>  | <b>11700</b> | <b>13200</b> | <b>8790</b>  | <b>9000</b>  | <b>9570</b>  |           |
| Antimony              | 3.1                               | 1.6          | 1.1 U        | 1.3          | 1.2 U        | 1 U          | 1.2 U        | 1.4 U        | 1.2 U        | 1.1 U        | 1.2 U        | 1.3 U        | 1.1 U        |           |
| Arsenic               | 0.68                              | <b>4.7</b>   | <b>1.5</b>   | <b>3.4</b>   | <b>7</b>     | <b>1.3</b>   | <b>3.2</b>   | <b>3.6</b>   | <b>4</b>     | <b>4.4</b>   | <b>3.6</b>   | <b>2.3</b>   | <b>4.6</b>   |           |
| Barium                | 1500                              | 126          | 25.1         | 109          | 45.6         | 46           | 28           | 44.3         | 107          | 30           | 43.4         | 43.3         | 54.1         |           |
| Beryllium             | 16                                | 0.43 J       | 0.34 J       | 0.45 J       | 0.55 J       | 0.43 J       | 0.52 J       | 0.48 J       | 1            | 0.43 J       | 0.48 J       | 0.41 J       | 0.47 J       |           |
| Cadmium               | 7.1                               | 1.5          | 0.55 U       | 1.6          | 0.34 J       | 0.076 J      | 0.58 U       | 0.21 J       | 0.39 J       | 0.55 U       | 0.12 J       | 0.25 J       | 0.084 J      |           |
| Calcium               | NL                                | 5140         | 1090         | 2030         | 5280         | 655          | 499 J        | 1750         | 904          | 530 J        | 899          | 1840         | 1480         |           |
| Chromium <sup>1</sup> | 12,000                            | 32           | 10.1         | 18.8         | 16.7         | 16.2         | 20.3         | 12.4         | 25.1         | 22.5         | 14.9         | 12           | 22.1         |           |
| Cobalt                | 2.3                               | <b>3.7</b>   | <b>2</b>     | <b>3.7</b>   | <b>4.5</b>   | <b>3.1</b>   | <b>4.7</b>   | <b>3.6</b>   | <b>15.7</b>  | <b>4.1</b>   | <b>5.9</b>   | <b>5.5</b>   | <b>7.7</b>   |           |
| Copper                | 310                               | 80.9         | 6.2          | 55.1         | 15.4         | 6.1          | 9            | 14.6         | 20.5         | 9.2          | 18.1         | 14           | 19.3         |           |
| Iron                  | 5500                              | <b>18000</b> | <b>23500</b> | <b>17300</b> | <b>19200</b> | <b>11700</b> | <b>25200</b> | <b>15000</b> | <b>21900</b> | <b>26100</b> | <b>19200</b> | <b>19500</b> | <b>21100</b> |           |
| Lead                  | 400                               | <b>518</b>   | 8.4          | 216          | 84.8         | 7.2 J        | 6.5          | 71.7         | 48.1         | 7.7          | 77.4         | 89.7         | 59           |           |
| Magnesium             | NL                                | 2120         | 2200         | 1490         | 1900         | 1670         | 2050         | 1360         | 2150         | 1900         | 1520         | 2150         | 1990         |           |
| Manganese             | 180                               | <b>278</b>   | 37.9         | <b>227</b>   | <b>273</b>   | 38.3         | 111          | <b>237</b>   | <b>353</b>   | 91.9         | <b>337</b>   | <b>335</b>   | <b>323</b>   |           |
| Mercury               | 1.1                               | 0.47         | 0.12 U       | 0.4          | 0.12 U       | 0.11 UJ      | 0.11 U       | 0.14 U       | 0.12 U       | 0.11 U       | 0.12 U       | 0.13 UJ      | 0.12 UJ      |           |
| Nickel                | 150                               | 12.2         | 3            | 7.6          | 7            | 6.6          | 8.6          | 5.2          | 8.1          | 8.1          | 7            | 6.6          | 12.3         |           |
| Potassium             | NL                                | 609 J        | 797          | 516 J        | 514 J        | 461 J        | 586          | 477 J        | 1470         | 681          | 772          | 960          | 857          |           |
| Silver                | 39                                | 2.9          | 0.55 U       | 1.6          | 0.085 J      | 0.52 U       | 0.58 U       | 0.1 J        | 0.58 U       | 0.55 U       | 0.59 U       | 0.63 U       | 0.55 UJ      |           |
| Sodium                | NL                                | 696 U        | 612 U        | 661 U        | 611 U        | 199 J        | 545 U        | 689 U        | 583 U        | 580 U        | 587 U        | 641 U        | 578 U        |           |
| Thallium              | 0.078                             | 0.72 U       | 0.55 U       | 0.64 U       | 0.61 U       | 0.52 U       | 0.58 U       | 0.7 U        | 0.15 J       | 0.55 U       | 0.59 U       | 0.63 U       | 0.55 U       |           |
| Vanadium              | 39                                | 24           | 20           | 21.1         | 29           | 19.1         | 31.2         | 22.6         | <b>49</b>    | 35.2         | 27.2         | 25.3         | 35.5         |           |
| Zinc                  | 2300                              | 335          | 14.6         | 370          | 74.6         | 21.8         | 24.1         | 44.1         | 110          | 25.2         | 53.3         | 77.7         | 56           |           |

Notes:

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-159 | NLR-SS-159   | NLR-CS-160 | NLR-SS-160   | NLR-CS-161 | NLR-SS-161   | NLR-CS-162 | NLR-SS-162   | NLR-CS-163 | NLR-DB-163   | NLR-SB-163 | NLR-SS-163   |            |              |    |             |    |              |    |              |    |              |    |              |    |
|-----------------------|-----------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|----|-------------|----|--------------|----|--------------|----|--------------|----|--------------|----|
| CLP Sample Number:    |                                   | MC0B90     | MC0B22       | MC0B91     | MC0B23       | MC0B92     | MC0B24       | MC0B93     | MC0B25       | MC0B94     | MC0BE5       | MC0BD0     | MC0B26       |            |              |    |             |    |              |    |              |    |              |    |              |    |
| Units:                |                                   | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        |            |              |    |             |    |              |    |              |    |              |    |              |    |
| Sample Date:          |                                   | 11/16/2020 | 11/16/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 | 11/19/2020   | 11/19/2020 |              |    |             |    |              |    |              |    |              |    |              |    |
| Sample Depth:         |                                   | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 8-10       | 2-4          | 0-0.5      |              |    |             |    |              |    |              |    |              |    |              |    |
| Sample Type:          | Background                        | Background | Field        | Field      | Background   | Background | Background   | Background | Background   | Background | Background   | Background | Background   |            |              |    |             |    |              |    |              |    |              |    |              |    |
| Metals                | Result                            | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          |              |    |             |    |              |    |              |    |              |    |              |    |
| Aluminum              | 7700                              |            | <b>11200</b> |            | <b>10300</b> |            | <b>13200</b> |            | <b>13800</b> |            | <b>12000</b> |            | <b>12000</b> |            | <b>7980</b>  |    | 5060        |    | <b>10300</b> |    | <b>13700</b> |    | <b>19600</b> |    | 7170         |    |
| Antimony              | 3.1                               |            | 1.8          |            | 1.5          |            | 1.3          | U          | 1.2          | U          | 1.2          | U          | 2.4          | U          | 1.1          | U  | 1.1         | U  | 1.3          | U  | 1.1          | U  | 2.4          | U  | 1.2          | R  |
| Arsenic               | 0.68                              |            | <b>6.6</b>   |            | <b>6</b>     |            | <b>8</b>     |            | <b>6.3</b>   |            | <b>3.6</b>   |            | <b>4</b>     |            | <b>3.1</b>   |    | <b>1.8</b>  |    | <b>3.9</b>   |    | <b>1.5</b>   |    | <b>1.2</b>   |    | 4            | R  |
| Barium                | 1500                              |            | 124          |            | 117          |            | 64.1         |            | 38.5         |            | 60.1         |            | 111          |            | 33           |    | 12.1        |    | 94.4         |    | 47.9         |    | 49.9         |    | 80.3         | R  |
| Beryllium             | 16                                |            | 0.76         |            | 0.68         |            | 0.63         | J          | 0.59         |            | 0.6          |            | 0.7          | J          | 0.41         | J  | 0.077       | J  | 0.51         | J  | 0.56         | J  | 0.86         | J  | 0.44         | J  |
| Cadmium               | 7.1                               |            | 0.77         |            | 0.65         | J          | 0.45         | J          | 0.16         | J          | 0.59         | U          | 1.2          | U          | 0.62         | U  | 0.57        | U  | 0.66         | U  | 0.57         | U  | 0.59         | U  | 0.6          | U  |
| Calcium               | NL                                |            | 2410         |            | 2690         |            | 2330         |            | 705          |            | 1360         |            | 2740         |            | 851          |    | 570         |    | 4600         |    | 1040         |    | 2890         |    | 2420         |    |
| Chromium <sup>1</sup> | 12,000                            |            | 19.7         |            | 19.8         |            | 26.8         |            | 20.4         |            | 17           |            | 16.6         |            | 11.3         |    | 4.8         |    | 18.8         |    | 17           |    | 50.2         |    | 14.9         |    |
| Cobalt                | 2.3                               |            | <b>5.9</b>   |            | <b>5.5</b>   |            | <b>6.5</b>   |            | <b>4.7</b>   |            | <b>5.6</b>   |            | <b>5.5</b>   |            | <b>4.1</b>   |    | <b>0.98</b> |    | <b>6.2</b>   |    | <b>5.6</b>   |    | <b>12.6</b>  |    | <b>5.6</b>   |    |
| Copper                | 310                               |            | 40.3         |            | 36           |            | 16.2         |            | 13.2         |            | 18           |            | 18.5         |            | 15.9         |    | 4.7         |    | 30.1         |    | 6.3          |    | 22.5         |    | 24.2         |    |
| Iron                  | 5500                              |            | <b>19700</b> |            | <b>17900</b> |            | <b>22900</b> |            | <b>24700</b> |            | <b>21200</b> |            | <b>19200</b> | J          | <b>15000</b> |    | <b>9480</b> |    | <b>28300</b> |    | <b>18600</b> |    | <b>30600</b> |    | <b>15500</b> |    |
| Lead                  | 400                               |            | 384          |            | 349          |            | 47.1         |            | 34.2         |            | 82.9         |            | 203          |            | 90.2         |    | 15.5        |    | 185          |    | 10.4         |    | 36.3         |    | 171          | R  |
| Magnesium             | NL                                |            | 2130         |            | 1860         |            | 2330         |            | 1750         |            | 2020         |            | 1880         |            | 1360         |    | 703         |    | 2520         |    | 2270         |    | 5870         |    | 1470         |    |
| Manganese             | 180                               |            | <b>424</b>   |            | <b>352</b>   |            | <b>320</b>   |            | 158          |            | <b>388</b>   |            | <b>407</b>   |            | <b>255</b>   |    | 129         |    | <b>330</b>   |    | <b>431</b>   |    | <b>495</b>   |    | <b>231</b>   |    |
| Mercury               | 1.1                               |            | 0.21         |            | 0.16         |            | 0.15         |            | 0.12         | U          | 0.24         |            | 0.15         |            | 0.16         | UJ | 0.11        | UJ | 0.21         |    | 0.12         | UJ | 0.12         | UJ | 0.22         |    |
| Nickel                | 150                               |            | 11.4         |            | 11.3         |            | 9.4          |            | 6.6          |            | 7.5          |            | 8.6          |            | 6.5          |    | 1.5         |    | 13.3         |    | 8.4          |    | 21.7         |    | 8            |    |
| Potassium             | NL                                |            | 786          |            | 888          |            | 818          |            | 775          |            | 1070         |            | 963          |            | 467          | J  | 275         | J  | 1720         |    | 1040         |    | 4220         |    | 1350         |    |
| Silver                | 39                                |            | 0.29         | J          | 0.35         | J          | 0.15         | J          | 0.086        | J          | 0.59         | UJ         | 1.2          | UJ         | 0.62         | UJ | 0.57        | UJ | 0.66         | UJ | 0.57         | UJ | 0.59         | UJ | 0.6          | UJ |
| Sodium                | NL                                |            | 658          | U          | 626          | U          | 651          | U          | 566          | U          | 610          | U          | 635          | U          | 633          | U  | 562         | U  | 649          | U  | 321          | J  | 589          | U  | 618          | U  |
| Thallium              | 0.078                             |            | <b>0.096</b> | J          | <b>0.09</b>  | J          | 0.66         | U          | 0.59         | U          | 0.59         | U          | 1.2          | U          | 0.62         | U  | 0.57        | U  | 0.66         | U  | 0.57         | U  | 1.2          | U  | 0.6          | R  |
| Vanadium              | 39                                |            | 36.7         |            | 32.2         |            | 32.8         |            | 32.4         |            | 29.3         |            | 25.6         |            | 21.1         |    | 5.5         |    | 24.9         |    | 20.1         |    | <b>57.4</b>  |    | 26           |    |
| Zinc                  | 2300                              |            | 250          |            | 230          |            | 108          |            | 49           |            | 86.3         |            | 137          |            | 80.3         |    | 135         |    | 162          |    | 40.4         |    | 49.1         |    | 128          |    |

Notes:

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III  
Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

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J = Reported value is estimated; actual value may be higher or lower.

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-164 | NLR-SS-164   | NLR-CS-165 | NLR-SS-165   | NLR-CS-166 | NLR-SB-166   | NLR-SS-166 | NLR-CS-167   | NLR-SB-167 | NLR-SS-167   |   |              |  |              |  |              |  |              |  |              |
|-----------------------|-----------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---|--------------|--|--------------|--|--------------|--|--------------|--|--------------|
| CLP Sample Number:    |                                   | MC0B95     | MC0B27       | MC0B96     | MC0B28       | MC0B97     | MC0BD1       | MC0B29     | MC0B98       | MC0BD2     | MC0B30       |   |              |  |              |  |              |  |              |  |              |
| Units:                |                                   | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        | mg/kg      | mg/kg        |   |              |  |              |  |              |  |              |  |              |
| Sample Date:          |                                   | 11/19/2020 | 11/19/2020   | 12/2/2020  | 12/2/2020    | 11/19/2020 | 11/19/2020   | 11/19/2020 | 12/2/2020    | 11/19/2020 | 12/2/2020    |   |              |  |              |  |              |  |              |  |              |
| Sample Depth:         |                                   | 0-0.5      | 0-0.5        | 0-0.5      | 0-0.5        | 0-6        | 2-4          | 0-0.5      | 0-0.5        | 2-4        | 0-0.5        |   |              |  |              |  |              |  |              |  |              |
| Sample Type:          | Background                        | Background | Background   | Background | Background   | Background | Background   | Background | Background   | Background |              |   |              |  |              |  |              |  |              |  |              |
| Metals                | Result                            | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q          | Result       | Q |              |  |              |  |              |  |              |  |              |
| Aluminum              | 7700                              |            | <b>10900</b> |            | <b>8730</b>  |            | <b>10400</b> |            | <b>12500</b> |            | <b>10000</b> |   | <b>13400</b> |  | <b>12100</b> |  | <b>9140</b>  |  | <b>16900</b> |  | <b>8900</b>  |
| Antimony              | 3.1                               |            | 1.3 U        |            | 2.6 U        |            | 1.3 U        |            | 1.2 U        |            | 2.2 U        |   | 1.2 U        |  | 1.3 U        |  | 1.1 U        |  | 1.1 U        |  | 1.3 U        |
| Arsenic               | 0.68                              |            | <b>3.8</b>   |            | <b>6.4</b>   |            | <b>3.7</b>   |            | <b>6</b>     |            | <b>4.2</b>   |   | <b>3.7</b>   |  | <b>5.9</b>   |  | <b>3.6</b>   |  | <b>4.4</b>   |  | <b>5.8</b>   |
| Barium                | 1500                              |            | 94.1         |            | 112          |            | 76.1         |            | 74.9 R       |            | 68.9         |   | 43.5         |  | 55.2         |  | 61.1         |  | 38.5         |  | 84.2 J       |
| Beryllium             | 16                                |            | 0.51 J       |            | 0.62 J       |            | 0.69         |            | 0.75         |            | 0.49 J       |   | 0.76 J       |  | 0.47 J       |  | 0.59 J       |  | 0.4 J        |  | 0.74         |
| Cadmium               | 7.1                               |            | 0.66 U       |            | 1.3 U        |            | 0.37 J       |            | 0.29 J       |            | 0.59 U       |   | 0.55 U       |  | 0.59 U       |  | 0.28 J       |  | 0.56 U       |  | 0.26 J       |
| Calcium               | NL                                |            | 1940         |            | 2600         |            | 1250         |            | 2460         |            | 1570         |   | 653          |  | 2520         |  | 970          |  | 886          |  | 1070         |
| Chromium <sup>1</sup> | 12,000                            |            | 18.3         |            | 19.2         |            | 13.3         |            | 25           |            | 37.2         |   | 21.4         |  | 21.9         |  | 12.1         |  | 22.9         |  | 16.4         |
| Cobalt                | 2.3                               |            | <b>6.1</b>   |            | <b>7.9</b>   |            | <b>6.2</b>   |            | <b>8.8</b>   |            | <b>5.1</b>   |   | <b>9.2</b>   |  | <b>4.5</b>   |  | <b>5.5</b>   |  | <b>4.6</b>   |  | <b>6.6</b>   |
| Copper                | 310                               |            | 29.4         |            | 29.2         |            | 30           |            | 32.1         |            | 31.8         |   | 10.5         |  | 28.2         |  | 18.6         |  | 8.9          |  | 26.1         |
| Iron                  | 5500                              |            | <b>23500</b> |            | <b>16600</b> |            | <b>19600</b> |            | <b>22700</b> |            | <b>17500</b> |   | <b>25900</b> |  | <b>21100</b> |  | <b>15800</b> |  | <b>27400</b> |  | <b>14400</b> |
| Lead                  | 400                               |            | 184          |            | <b>613</b>   |            | 167          |            | 68.2         |            | 253          |   | 9.6          |  | 114          |  | 125          |  | 11.5         |  | 165          |
| Magnesium             | NL                                |            | 1530         |            | 1380         |            | 1480         |            | 2520         |            | 1410         |   | 2730         |  | 1690         |  | 1350         |  | 2150         |  | 1300         |
| Manganese             | 180                               |            | <b>325</b>   |            | <b>353</b>   |            | <b>516</b>   |            | <b>461</b>   |            | <b>430</b>   |   | <b>194</b>   |  | <b>180</b>   |  | <b>363</b>   |  | 124          |  | <b>380</b>   |
| Mercury               | 1.1                               |            | 0.3          |            | 0.41         |            | 0.16         |            | 0.13         |            | 0.18         |   | 0.12 UJ      |  | 0.12         |  | 0.13         |  | 0.12 UJ      |  | 0.26         |
| Nickel                | 150                               |            | 13.1         |            | 10.4         |            | 6.6          |            | 12.8         |            | 7.6          |   | 11.1         |  | 7.4          |  | 6            |  | 7.9          |  | 9.1          |
| Potassium             | NL                                |            | 847          |            | 786          |            | 507 J        |            | 607          |            | 453 J        |   | 910          |  | 620          |  | 466 J        |  | 849          |  | 407 J        |
| Silver                | 39                                |            | 0.66 UJ      |            | 0.66 UJ      |            | 0.13 J       |            | 0.58 UJ      |            | 0.59 UJ      |   | 0.55 UJ      |  | 0.59 UJ      |  | 0.099 J      |  | 0.56 UJ      |  | 0.63 UJ      |
| Sodium                | NL                                |            | 642 U        |            | 649 U        |            | 653 U        |            | 605 U        |            | 575 U        |   | 569 U        |  | 596 U        |  | 636 U        |  | 596 U        |  | 606 U        |
| Thallium              | 0.078                             |            | 0.66 U       |            | 1.3 U        |            | 0.65 U       |            | 0.58 R       |            | 0.59 U       |   | 1.1 U        |  | 0.59 U       |  | 0.64 U       |  | 0.56 U       |  | 0.63 UJ      |
| Vanadium              | 39                                |            | 24.1         |            | <b>39.3</b>  |            | 26.9         |            | 42.3         |            | 30.9         |   | 37.4         |  | 29.9         |  | 24.9         |  | 38.3         |  | 29.8         |
| Zinc                  | 2300                              |            | 159          |            | 227          |            | 94.3         |            | 90.6         |            | 101          |   | 42.4         |  | 75.3         |  | 73.2         |  | 28.1         |  | 94           |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 10  
Norwood Landfill  
Residential Soil Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA RSL<br>Residential<br>(mg/kg) | NLR-CS-168   | NLR-SS-168 | NLR-CS-168-01  | NLR-SS-168-01 | NLR-CS-169   | NLR-SS-169 | NLR-CS-170     | NLR-SS-170 |              |  |                |  |              |  |              |
|-----------------------|-----------------------------------|--------------|------------|----------------|---------------|--------------|------------|----------------|------------|--------------|--|----------------|--|--------------|--|--------------|
| CLP Sample Number:    |                                   | MC0BF9       | MC0BG1     | MC0BG0         | MC0BG2        | MC0BF2       | MC0BF3     | MC0BJ0         | MC0BJ1     |              |  |                |  |              |  |              |
| Units:                |                                   | mg/kg        | mg/kg      | mg/kg          | mg/kg         | mg/kg        | mg/kg      | mg/kg          | mg/kg      |              |  |                |  |              |  |              |
| Sample Date:          |                                   | 11/16/2020   | 11/16/2020 | 11/16/2020     | 11/16/2020    | 11/11/2020   | 11/11/2020 | 12/2/2020      | 12/2/2020  |              |  |                |  |              |  |              |
| Sample Depth:         |                                   | 0-0.5        | 0-0.5      | 0-0.5          | 0-0.5         | 0-0.5        | 0-0.5      | 0-0.5          | 0-0.5      |              |  |                |  |              |  |              |
| Sample Type:          | Field                             | Field        | Field      | Field          | Field         | Field        | Field      | Field          |            |              |  |                |  |              |  |              |
| Metals                | Result                            | Q            | Result     | Q              | Result        | Q            | Result     | Q              | Result     | Q            |  |                |  |              |  |              |
| Aluminum              | 7700                              | <b>10300</b> |            | <b>10200</b>   |               | <b>10100</b> |            | <b>9940</b>    |            | <b>10000</b> |  | <b>9750</b>    |  | <b>10700</b> |  | <b>10100</b> |
| Antimony              | 3.1                               | 1.3 U        |            | 1.2 U          |               | 1.3 U        |            | 1.2 U          |            | 1.1 U        |  | 1.2 U          |  | 1.3 U        |  | 1.3 U        |
| Arsenic               | 0.68                              | <b>6.4</b>   |            | <b>3.7</b>     |               | <b>6.2</b>   |            | <b>3.8</b>     |            | <b>4.1</b>   |  | <b>5.6</b>     |  | <b>1.9</b>   |  | <b>2.1</b>   |
| Barium                | 1500                              | 31.3         |            | 42.4           |               | 32.2         |            | 41.8           |            | 40.2         |  | 45             |  | 43.2         |  | 51.2         |
| Beryllium             | 16                                | 0.48 J       |            | 0.5 J          |               | 0.47 J       |            | 0.48 J         |            | 0.52 J       |  | 0.54 J         |  | 0.5 J        |  | 0.56 J       |
| Cadmium               | 7.1                               | 0.7          |            | 1.4            |               | 0.21 J       |            | 1.3            |            | 0.5 J        |  | 0.83           |  | 0.28 J       |  | 0.29 J       |
| Calcium               | NL                                | 1470         |            | 2500           |               | 1140         |            | 2560           |            | 1930         |  | 2420           |  | 1470         |  | 1320         |
| Chromium <sup>1</sup> | 12,000                            | 16.5         |            | 16.6           |               | 18           |            | 15.7           |            | 16.4         |  | 17.4           |  | 21           |  | 45.1         |
| Cobalt                | 2.3                               | <b>5.1</b>   |            | <b>6</b>       |               | <b>5.3</b>   |            | <b>6.2</b>     |            | <b>5</b>     |  | <b>5.6</b>     |  | <b>5.9</b>   |  | <b>5.8</b>   |
| Copper                | 310                               | 13.8         |            | 17.2           |               | 14.7         |            | 16.9           |            | 20.6         |  | 27.1           |  | 16.7         |  | 27.8         |
| Iron                  | 5500                              | <b>19300</b> |            | <b>19900</b>   |               | <b>19700</b> |            | <b>19700</b>   |            | <b>20000</b> |  | <b>20700</b>   |  | <b>20800</b> |  | <b>18600</b> |
| Lead                  | 400                               | 42.2         |            | 47.3           |               | 40           |            | 47             |            | 50.3         |  | 58             |  | 49.4         |  | 57.3         |
| Magnesium             | NL                                | 2050         |            | 2430           |               | 1920         |            | 2440           |            | 2000         |  | 2150           |  | 2110         |  | 1820         |
| Manganese             | 180                               | <b>233</b>   |            | <b>252</b>     |               | <b>248</b>   |            | <b>253</b>     |            | <b>217</b>   |  | <b>241</b>     |  | <b>358</b>   |  | <b>441</b>   |
| Mercury               | 1.1                               | 0.12 UJ      |            | 0.12 U         |               | 0.13 U       |            | 0.12 U         |            | 0.13 U       |  | 0.15           |  | 0.13 UJ      |  | 0.12         |
| Nickel                | 150                               | 8.9          |            | 12.2           |               | 8.6          |            | 11.8           |            | 10.5         |  | 13.1           |  | 10.1         |  | 18.3         |
| Potassium             | NL                                | 714          |            | 669            |               | 701          |            | 656            |            | 671          |  | 793            |  | 868          |  | 666          |
| Silver                | 39                                | 0.64 U       |            | 0.091 J        |               | 0.64 U       |            | 0.085 J        |            | 0.17 J       |  | 0.17 J         |  | 0.55 J       |  | 2            |
| Sodium                | NL                                | 611 U        |            | 616 U          |               | 632 U        |            | 607 U          |            | 636 U        |  | 649 U          |  | 655 U        |  | 663 U        |
| Thallium              | 0.078                             | 0.64 U       |            | <b>0.088</b> J |               | 0.64 U       |            | <b>0.085</b> J |            | 0.55 U       |  | <b>0.082</b> J |  | 0.63 U       |  | 0.67 U       |
| Vanadium              | 39                                | 24.4         |            | 22.6           |               | 23           |            | 23.3           |            | 27           |  | 30.6           |  | 23.4         |  | 23.3         |
| Zinc                  | 2300                              | 49.8         |            | 87.9           |               | 43.4         |            | 88.3           |            | 191          |  | 286            |  | 68.6         |  | 83           |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020).

Bold values indicate exceedance of residential RSL.

Red values indicate three times background values (or above background RDL if background is non-detect).

Unshaded columns are grab surface soil samples

Gray shaded columns are composite surface soil samples

Orange shaded columns are shallow subsurface soil samples

Green shaded columns are deep subsurface soil samples

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

TR = Target Risk

Table 11  
Norwood Landfill  
Groundwater Samples  
Organic Analytical Results Summary

| Sample ID:              | EPA VISL<br>Target GW<br>(µg/L) | EPA RSL<br>Tapwater<br>(µg/L) | NL-2020-GW-01 |   | NL-2020-GW-03 |   | NL-2020-GW-04 |   | NL-2020-GW-06  |   | NL-2020-GW-06-01 |  |
|-------------------------|---------------------------------|-------------------------------|---------------|---|---------------|---|---------------|---|----------------|---|------------------|--|
| CLP Sample Number:      |                                 |                               | COAR3         |   | COAR5         |   | COAR6         |   | COAR8          |   | COAT4            |  |
| Units:                  |                                 |                               | µg/L          |   | µg/L          |   | µg/L          |   | µg/L           |   | µg/L             |  |
| Sample Date:            |                                 |                               | 9/1/2020      |   | 9/1/2020      |   | 9/1/2020      |   | 9/1/2020       |   | 9/1/2020         |  |
| Sample Type:            |                                 |                               | Background    |   | Field Sample  |   | Field Sample  |   | Field Sample   |   | Field Duplicate  |  |
| VOC                     | Result                          | Q                             | Result        | Q | Result        | Q | Result        | Q | Result         | Q |                  |  |
| Carbon disulfide        | 124                             | 81                            | 0.5 U         |   | 0.1 J         |   | 0.5 U         |   | 0.5 U          |   | 0.5 U            |  |
| Chloroform              | 0.814                           | 0.22                          | 0.5 U         |   | 0.5 U         |   | 0.5 U         |   | <b>0.59</b>    |   | <b>0.64</b>      |  |
| Chloromethane           | 26                              | 19                            | 0.51 U        |   | 0.5 U         |   | <b>0.82</b>   |   | <b>0.76</b> J+ |   | 0.63 U           |  |
| cis-1,2-Dichloroethene  | NL                              | 3.6                           | 0.5 U         |   | 0.5 U         |   | 0.24 J        |   | 0.5 UJ         |   | 0.5 U            |  |
| m,p-Xylene              | 38.5                            | 19                            | 0.07 J        |   | 0.5 U         |   | 0.5 U         |   | 0.5 U          |   | 0.5 U            |  |
| Methyl tert-butyl Ether | 450                             | 14                            | 2.7           |   | 0.5 U         |   | 0.5 U         |   | 0.5 U          |   | 0.5 U            |  |
| Tetrachloroethene       | 0.518                           | 4.1                           | 0.5 U         |   | 0.5 U         |   | 0.33 J        |   | 0.5 U          |   | 0.5 U            |  |
| Trichloroethene         | 5.76                            | 0.28                          | 0.5 U         |   | 0.5 U         |   | 0.27 J        |   | 0.5 U          |   | 0.5 U            |  |
| SVOC SIM                |                                 |                               |               |   |               |   |               |   |                |   |                  |  |
| Acenaphthylene          | NL                              | NL                            | 0.03 J        |   | 0.1 U         |   | 0.1 U         |   | 0.1 U          |   | 0.1 U            |  |
| Naphthalene             | 4.59                            | 0.12                          | 0.1 U         |   | 0.1 U         |   | 0.05 J        |   | 0.1 U          |   | 0.1 U            |  |
| Pentachlorophenol       | NL                              | 0.041                         | 0.11 J        |   | 0.2 U         |   | 0.2 U         |   | 0.2 U          |   | 0.2 U            |  |
| Phenanthrene            | NL                              | NL                            | 0.1 U         |   | 0.1 U         |   | 0.02 J        |   | 0.1 U          |   | 0.1 U            |  |
| SVOCs                   |                                 |                               |               |   |               |   |               |   |                |   |                  |  |
| Dimethylphthalate       | NL                              | NL                            | 2.1 J         |   | 2.8 J         |   | 1.8 J         |   | 2 J            |   | 1.6 J            |  |

Notes:

Data compared to EPA Regional Screening Level (RSL) for Tapwater TR= 1E-06 HQ 0.1 (EPA, 2020)

Data compared to EPA Vapor Intrusion Screening Level (VISL) for Target Groundwater Concentration TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

J = Reported value is estimated; actual value may be higher or lower

µg/L = micrograms per liter

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PAH = polycyclic aromatic hydrocarbon

Q = Qualifier

SIM = selective ion monitoring

SVOC = semivolatile organic compound

TR = Target Risk

VOC = volatile organic compound

Table 12  
Norwood Landfill  
Groundwater Samples  
Inorganic Analytical Results Summary

| Sample ID:          | EPA RSL<br>Tapwater<br>(µg/L) | NL-2020-GW-01 | NL-2020-GW-03 | NL-2020-GW-04  | NL-2020-GW-06 | NL-2020-GW-06-01 |
|---------------------|-------------------------------|---------------|---------------|----------------|---------------|------------------|
| CLP Sample Number:  |                               | COAR3         | COAR5         | COAR6          | COAR8         | COAT4            |
| Units:              |                               | µg/L          | µg/L          | µg/L           | µg/L          | µg/L             |
| Sample Date:        |                               | 9/1/2020      | 9/1/2020      | 9/1/2020       | 9/1/2020      | 9/1/2020         |
| Sample Type:        |                               | Background    | Field Sample  | Field Sample   | Field Sample  | Field Duplicate  |
| Metals <sup>1</sup> | Result                        | Q             | Result        | Q              | Result        | Q                |
| Aluminum            | 2000                          | 620           | 130           | 149            | 241           | 64.5             |
| Arsenic             | 0.052                         | 1 U           | <b>2.5</b>    | 1 U            | 1 U           | 1 U              |
| Barium              | 380                           | 137           | 10 U          | 73.3           | 45.4          | 44.3             |
| Cadmium             | 0.92                          | 1 U           | 1 U           | <b>2.9</b>     | 1 U           | 1 U              |
| Calcium             | NL                            | 18600         | 22100         | 162000         | 15100         | 15400            |
| Cobalt              | 0.6                           | <b>89.9</b>   | 1 U           | <b>1.8</b>     | <b>10.1</b>   | <b>9.7</b>       |
| Copper              | 80                            | 6.8           | 2.2           | 14.3           | 2.7           | 2.3              |
| Iron                | 1400                          | 769           | 63.5 J        | 539            | 597           | 200 U            |
| Lead                | 15                            | 4.9           | 1 U           | <b>37.9</b>    | 1 U           | 1 U              |
| Magnesium           | NL                            | 15000         | 1660          | 15700 J        | 10400         | 10600            |
| Manganese           | 43                            | <b>2270</b>   | 6             | <b>1320</b>    | <b>424</b>    | <b>428</b>       |
| Mercury             | 0.063                         | <b>0.85</b>   | <b>0.86</b>   | <b>0.86</b>    | <b>0.9</b>    | <b>0.87</b>      |
| Nickel              | 39                            | 23.8          | 0.65 J        | 31.6           | 11.2          | 10.9             |
| Potassium           | NL                            | 2180          | 2430          | <b>12100</b> J | 1070          | 1090             |
| Silver              | 9.4                           | 1 U           | 1 U           | 1 UJ           | 1 U           | 1 U              |
| Sodium              | NL                            | 68900         | 20600         | 18500 J        | 15200         | 15800            |
| Vanadium            | 8.6                           | 5 U           | 5.4           | 5 U            | 5 U           | 5 U              |
| Zinc                | 600                           | 21.5          | 1.6 J         | <b>833</b>     | 14.9          | 13.3             |

**Notes:**

<sup>1</sup> Groundwater samples were unfiltered and analyzed for total metals

Data compared to EPA Regional Screening Level (RSL) for Tapwater TR= 1E-06 HQ 0.1 (EPA, 2020)

Bold values indicate exceedance of RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

J = Reported value is estimated; actual value may be higher or lower

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/L = micrograms per liter

CLP = Contract Laboratory Program

HQ = Hazard Quotient

Q = Qualifier

NL = No listed value

TR = Target Risk



Table 13  
Norwood Landfill  
Surface Water Samples  
Inorganic Analytical Results Summary

| Sample ID:            | EPA BTAG<br>(µg/L) | EPA RSL<br>Tapwater<br>(10X)<br>(µg/L) | NL-2020-SW-13 |            | NL-2020-SW-13-01 |              | NL-2020-SW-14 |              | NL-2020-SW-15 |   | NL-2020-SW-16 |   | NL-2020-SW-17 |   | NL-2020-SW-18 |   |
|-----------------------|--------------------|--|---------------|------------|------------------|--------------|---------------|--------------|---------------|---|---------------|---|---------------|---|---------------|---|
| CLP Sample Number:    |                    |  | COAQ7         | COAW2      | COAQ8            | COAQ9        | COAR0         | COAR1        | COAR2         |   |               |   |               |   |               |   |
| Units:                |                    |  | µg/L          | µg/L       | µg/L             | µg/L         | µg/L          | µg/L         | µg/L          |   |               |   |               |   |               |   |
| Sample Date:          |                    |  | 9/1/2020      | 9/1/2020   | 9/1/2020         | 9/1/2020     | 9/1/2020      | 9/1/2020     | 9/1/2020      |   |               |   |               |   |               |   |
| Sample Type:          |                    |  | Background    | Background | Field Sample     | Field Sample | Field Sample  | Field Sample | Field Sample  |   |               |   |               |   |               |   |
| Metals <sup>1</sup>   | Result             | Q                                      | Result        | Q          | Result           | Q            | Result        | Q            | Result        | Q | Result        | Q | Result        | Q | Result        | Q |
| Aluminum              | 87                 | 20000                                  | 20            | U          | 20               | U            | 40.5          |              | 39.1          |   | 105           |   | 61.4          |   | 155           |   |
| Arsenic               | 5                  | 0.52                                   | 1             | U          | 1.1              |              | 1.1           |              | 1.1           |   | 1.5           |   | 1.2           |   | 1             | U |
| Barium                | 4                  | 3800                                   | 49.7          |            | 48.2             |              | 48.7          |              | 56.6          |   | 32.7          |   | 26.9          |   | 60.2          |   |
| Calcium               | 116,000            | NL                                     | 24400         |            | 24200            |              | 24400         |              | 26200         |   | 13500         |   | 12700         |   | 26000         |   |
| Chromium <sup>2</sup> | 85                 | 22000                                  | 2             | U          | 2                | U            | 2             | U            | 2             | U | 2             | U | 2             | U | 0.98          | J |
| Cobalt                | 23                 | 6                                      | 1             | U          | 1                | U            | 1             | U            | 1             | U | 1             | U | 1             | U | 0.33          | J |
| Copper                | 9                  | 800                                    | 2.6           |            | 2.5              |              | 2.8           |              | 2.3           |   | 4             |   | 3.4           |   | 2.8           |   |
| Iron                  | 300                | 14000                                  | 445           |            | 457              |              | 446           |              | 528           |   | 568           |   | 369           |   | 669           |   |
| Lead                  | 2.5                | 150                                    | 1             | U          | 1                | U            | 1             | U            | 1             | U | 1.5           |   | 0.92          | J | 2             |   |
| Magnesium             | 82,000             | NL                                     | 9730          |            | 9640             |              | 9660          |              | 9750          | J | 4550          |   | 4400          |   | 9920          |   |
| Manganese             | 120                | 430                                    | 56.4          |            | 57.4             |              | 51.2          |              | 81.1          | J | 91.7          |   | 67.6          |   | 111           | J |
| Mercury               | 0.026              | 0.63                                   | 0.82          |            | 0.2              | U            | 0.81          |              | 0.81          |   | 0.89          |   | 0.87          |   | 0.73          |   |
| Nickel                | 52                 | 390                                    | 2             |            | 1.9              |              | 1.9           |              | 2.5           | J | 1.8           |   | 1.4           |   | 1.3           |   |
| Potassium             | 53,000             | NL                                     | 3800          |            | 3770             |              | 3770          |              | 3780          |   | 2680          |   | 2580          |   | 3630          |   |
| Sodium                | 680,000            | NL                                     | 30500         |            | 30200            |              | 30100         |              | 28900         | J | 11600         |   | 11200         |   | 30600         |   |
| Vanadium              | 20                 | 86                                     | 5             | U          | 5                | U            | 5             | U            | 5             | U | 5             | U | 5             | U | 0.99          | J |
| Zinc                  | 120                | 6000                                   | 6.7           |            | 6.6              |              | 7.5           |              | 6.6           |   | 9.8           |   | 6.8           |   | 8.1           |   |

**Notes:**

<sup>1</sup> Surface water samples were unfiltered and analyzed for total metals

<sup>2</sup> There is no RSL for total chromium; value shown are for chromium III

Data compared to 10X EPA RSL for Tapwater TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater screening criteria (EPA, 1997)

Yellow highlight indicates exceedance of BTAG value

Bold values indicate exceedance of RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

J = Reported value is estimated; actual value may be higher or lower

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

µg/L = micrograms per liter

BTAG = Biological Technical Assiatnce Group

CLP = Contract Laboratory Program

HQ = Hazard Quotient

Q = Qualifier

NL = No listed value

RSL = Regional Screening Level

TR = Target Risk

Table 14  
Norwood Landfill  
Sediment Samples  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Type:<br>VOC | EPA BTAG<br>(µg/kg) | EPA RSL<br>Residential<br>(10X)<br>(µg/kg) | NL-2020-SD-13  |   | NL-2020-SD-14  |   | NL-2020-SD-15  |   | NL-2020-SD-16  |   |
|---|---------------------|--|--|---|--|---|--|---|--|---|
|   |                     |  | COAP6<br>µg/kg<br>10/6/2020<br>Background<br>Results | Q | COAP7<br>µg/kg<br>10/6/2020<br>Field Sample<br>Results | Q | COAP8<br>µg/kg<br>10/6/2020<br>Field Sample<br>Results | Q | COAP9<br>µg/kg<br>10/1/2020<br>Field Sample<br>Results | Q |
| 2-Butanone  | NL                  | 27000000                                   | 14   | U | 10   | U | 15   | U | 21   | U |
| Acetone   | NL                  | 61000000                                   | 14   | U | 10   | U | 15   | U | 22   | U |
| Bromofom  | 654                 | 190000                                     | 7.2  | U | 5.2  | U | 7.3  | U | 11   | U |
| SVOC SIM  |                     |  |  |   |  |   |  |   |  |   |
| 2-Methylnaphthalene   | 20.2                | 240000                                     | 3.4  | J | 4.3  |   | 3.6  | J | 6.1  | U |
| Acenaphthene  | 5.9                 | 3600000                                    | 28   |   | 20   |   | 14   |   | 6.1  | U |
| Acenaphthylene  | 6.7                 | NL   | 20   |   | 39   |   | 9  |   | 6.1  | U |
| Anthracene  | 57.2                | 18000000                                   | 110  |   | 140  |   | 53   |   | 6.1  | U |
| Benzo(a)anthracene  | 108                 | 11000                                      | 470  | J | 530  | J | 270  |   | 3  | J |
| Benzo(a)pyrene  | 150                 | 1100                                       | 430  |   | 470  | J | 270  |   | 2.5  | J |
| Benzo(b)fluoranthene  | 190                 | 11000                                      | 730  | J | 730  | J | 460  | J | 4.6  | J |
| Benzo(g,h,i)perylene  | 170                 | NL   | 250  |   | 250  |   | 160  |   | 2.3  | J |
| Benzo(k)fluoranthene  | 240                 | 110000                                     | 220  |   | 220  |   | 150  |   | 1.7  | J |
| Chrysene  | 166                 | 1100000                                    | 480  | J | 450  | J | 290  |   | 3.3  | J |
| Dibenzo(a,h)anthracene  | 33                  | 1100                                       | 86   |   | 92   |   | 61   |   | 6.1  | U |
| Fluoranthene  | 423                 | 2400000                                    | 1100   | J | 1000   | J | 570  | J | 5.9  | J |
| Fluorene  | 77.4                | 2400000                                    | 37   |   | 37   |   | 18   |   | 6.1  | U |
| Indeno(1,2,3-cd)pyrene  | 17                  | 11000                                      | 270  |   | 280  |   | 170  |   | 1.7  | J |
| Naphthalene   | 176                 | 20000                                      | 7  |   | 4.6  |   | 6  |   | 6.1  | U |
| Phenanthrene  | 204                 | NL   | 520  | J | 510  | J | 240  |   | 2.5  | J |
| Pyrene  | 195                 | 1800000                                    | 800  | J | 740  | J | 430  | J | 4.7  | J |
| SVOCs   |                     |  |  |   |  |   |  |   |  |   |
| Anthracene  | 57.2                | 18000000                                   | 120  | J | 110  | J | 250  | U | 320  | U |
| Benzo(a)anthracene  | 108                 | 11000                                      | 570  |   | 510  |   | 300  |   | 320  | U |
| Benzo(a)pyrene  | 150                 | 1100                                       | 500  |   | 450  |   | 280  |   | 320  | U |
| Benzo(b)fluoranthene  | 190                 | 11000                                      | 770  |   | 590  |   | 450  |   | 320  | U |
| Benzo(g,h,i)perylene  | 170                 | NL   | 300  |   | 260  |   | 180  | J | 320  | U |
| Benzo(k)fluoranthene  | 240                 | 110000                                     | 300  |   | 180  | J | 140  | J | 320  | U |
| Bis(2-ethylhexyl)phthalate  | NL                  | 390000                                     | 280  | U | 210  | U | 66   | J | 320  | U |
| Butylbenzylphthalate  | NL                  | 2900000                                    | 56   | J | 210  | U | 250  | U | 320  | U |
| Carbazole   | NL                  | NL   | 61   | J | 44   | J | 490  | U | 610  | U |
| Chrysene  | 166                 | 1100000                                    | 660  |   | 500  |   | 350  |   | 320  | U |
| Dibenzo(a,h)anthracene  | 33                  | 110  | 100  | J | 88   | J | 65   | J | 320  | U |
| Dimethylphthalate   | NL                  | NL   | 500  |   | 420  |   | 520  |   | 120  | J |
| Fluoranthene  | 423                 | 2400000                                    | 1200   |   | 910  |   | 580  |   | 610  | U |
| Indeno(1,2,3-cd)pyrene  | 17                  | 11000                                      | 310  |   | 260  |   | 180  | J | 320  | U |
| Phenanthrene  | 204                 | NL   | 620  |   | 490  |   | 260  |   | 320  | U |
| Phenol  | 420                 | 19000000                                   | 55   | J | 410  | U | 490  | U | 610  | U |
| Pyrene  | 195                 | 1800000                                    | 1000   |   | 760  |   | 510  |   | 320  | U |

**Notes:**

Data compared to 10X the EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater sediment screening criteria (EPA, 1997)  
Yellow highlight indicates exceedance of BTAG value  
Bold values indicate exceedance of residential RSL  
Red values indicate 3x background values (or above background RDL if background is non-detect)

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the san

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

BTAG = Biological Technical Assiatnce Group

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PAH = polycyclic aromatic hydrocarbon

Q = Qualifier

RSL = Regional Screening Level

SIM = selective ion monitoirng

SVOC = semivolatile organic compound

TR = Target Risk

VOC = volatile organic compound

Table 14  
Norwood Landfill  
Sediment Samples  
Organic Analytical Results Summary

| Sample ID:                 | EPA BTAG<br>(µg/kg) | EPA RSL<br>Residential<br>(10X)<br>(µg/kg) | NL-2020-SD-17 |   | NL-2020-SD-18 |   | NL-2020-SD-19 |    | NL-2020-SD-20 |    |
|----------------------------|---------------------|--|---------------|---|---------------|---|---------------|----|---------------|----|
| CLP Sample Number:         |                     |  | COAQ0         |   | COAQ1         |   | COAQ2         |    | COAQ3         |    |
| Units:                     |                     |  | µg/kg         |   | µg/kg         |   | µg/kg         |    | µg/kg         |    |
| Sample Date:               |                     |  | 10/1/2020     |   | 9/28/2020     |   | 10/1/2020     |    | 10/1/2020     |    |
| Sample Type:               |                     |  | Field Sample  |   | Field Sample  |   | Field Sample  |    | Field Sample  |    |
| VOC                        | Results             | Q  | Results       | Q | Results       | Q | Results       | Q  |               |    |
| 2-Butanone                 | NL                  | 27000000                                   | 16            |   | 28            | U | 53            |    | 60            | J  |
| Acetone                    | NL                  | 61000000                                   | 70            |   | 28            | U | 130           |    | 240           | J  |
| Bromofom                   | 654                 | 190000                                     | 6.9           | U | 14            | U | 26            | UJ | 37            | UJ |
| SVOC SIM                   |                     |  |               |   |               |   |               |    |               |    |
| 2-Methylnaphthalene        | 20.2                | 240000                                     | 1.4           | J | 8             | U | 14            | U  | 19            | U  |
| Acenaphthene               | 5.9                 | 3600000                                    | 6.4           |   | 2.9           | J | 3.5           | J  | 19            | U  |
| Acenaphthylene             | 6.7                 | NL   | 7.8           |   | 2.7           | J | 7             | J  | 19            | U  |
| Anthracene                 | 57.2                | 18000000                                   | 30            |   | 12            |   | 16            |    | 19            | U  |
| Benzo(a)anthracene         | 108                 | 11000                                      | 170           |   | 98            |   | 110           |    | 12            | J  |
| Benzo(a)pyrene             | 150                 | 1100                                       | 160           |   | 120           |   | 110           |    | 13            | J  |
| Benzo(b)fluoranthene       | 190                 | 11000                                      | 270           |   | 170           |   | 190           |    | 24            |    |
| Benzo(g,h,i)perylene       | 170                 | NL   | 89            |   | 87            |   | 65            |    | 8.6           | J  |
| Benzo(k)fluoranthene       | 240                 | 110000                                     | 94            |   | 63            |   | 61            |    | 8.1           | J  |
| Chrysene                   | 166                 | 1100000                                    | 190           |   | 120           |   | 120           |    | 15            | J  |
| Dibenzo(a,h)anthracene     | 33                  | 1100                                       | 37            |   | 25            |   | 21            |    | 19            | U  |
| Fluoranthene               | 423                 | 2400000                                    | 360           |   | 210           |   | 210           |    | 25            |    |
| Fluorene                   | 77.4                | 2400000                                    | 8.3           |   | 3.8           | J | 4.7           | J  | 19            | U  |
| Indeno(1,2,3-cd)pyrene     | 17                  | 11000                                      | 94            |   | 81            |   | 68            |    | 8.8           | J  |
| Naphthalene                | 176                 | 20000                                      | 1.8           | J | 2.4           | J | 14            | U  | 19            | U  |
| Phenanthrene               | 204                 | NL   | 130           |   | 73            |   | 79            |    | 8.1           | J  |
| Pyrene                     | 195                 | 1800000                                    | 290           |   | 140           |   | 180           |    | 24            |    |
| SVOCs                      |                     |  |               |   |               |   |               |    |               |    |
| Anthracene                 | 57.2                | 18000000                                   | 280           | U | 410           | U | 710           | U  | 960           | U  |
| Benzo(a)anthracene         | 108                 | 11000                                      | 180           | J | 97            | J | 710           | U  | 960           | U  |
| Benzo(a)pyrene             | 150                 | 1100                                       | 160           | J | 110           | J | 710           | U  | 960           | U  |
| Benzo(b)fluoranthene       | 190                 | 11000                                      | 250           | J | 180           | J | 160           | J  | 960           | U  |
| Benzo(g,h,i)perylene       | 170                 | NL   | 89            | J | 410           | U | 710           | U  | 960           | U  |
| Benzo(k)fluoranthene       | 240                 | 110000                                     | 97            | J | 410           | U | 710           | U  | 960           | U  |
| Bis(2-ethylhexyl)phthalate | NL                  | 390000                                     | 280           | U | 410           | U | 710           | U  | 960           | U  |
| Butylbenzylphthalate       | NL                  | 2900000                                    | 280           | U | 410           | U | 710           | U  | 960           | U  |
| Carbazole                  | NL                  | NL   | 550           | U | 800           | U | 1400          | U  | 1900          | U  |
| Chrysene                   | 166                 | 1100000                                    | 200           | J | 140           | J | 710           | U  | 960           | U  |
| Dibenzo(a,h)anthracene     | 33                  | 110  | 280           | U | 410           | U | 710           | U  | 960           | U  |
| Dimethylphthalate          | NL                  | NL   | 310           |   | 630           |   | 970           |    | 1200          |    |
| Fluoranthene               | 423                 | 2400000                                    | 380           | J | 210           | J | 210           | J  | 1900          | U  |
| Indeno(1,2,3-cd)pyrene     | 17                  | 11000                                      | 97            | J | 410           | U | 710           | U  | 960           | U  |
| Phenanthrene               | 204                 | NL   | 130           | J | 410           | U | 710           | U  | 960           | U  |
| Phenol                     | 420                 | 19000000                                   | 550           | U | 800           | U | 1400          | U  | 1900          | U  |
| Pyrene                     | 195                 | 1800000                                    | 280           |   | 180           | J | 160           | J  | 960           | U  |

Notes:

Data compared to 10X the EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater sediment screening criteria (EPA, 1997)

Yellow highlight indicates exceedance of BTAG value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

J = Reported value is estimated; actual value may be higher or lower.

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

µg/kg = micrograms per kilogram

BTAG = Biological Technical Assistance Group

CLP = Contract Laboratory Program

HQ = Hazard Quotient

NL = No listed value

PAH = polycyclic aromatic hydrocarbon

Q = Qualifier

RSL = Regional Screening Level

SIM = selective ion monitoring

SVOC = semivolatile organic compound

TR = Target Risk

VOC = volatile organic compound

Table 14  
Norwood Landfill  
Sediment Samples  
Organic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Type:<br>VOC | EPA BTAG<br>(µg/kg) | EPA RSL<br>Residential<br>(10X)<br>(µg/kg) | NL-2020-SD-21 |         | NL-2020-SD-21-01 |         | NL-2020-SD-22 |  | NL-2020-SD-23 |  |
|---|---------------------|--|---------------|---------|------------------|---------|---------------|--|---------------|--|
|   |                     |  | COAQ4         |         | COAT5            |         | COAQ5         |  | COAQ6         |  |
|   |                     |  | µg/kg         |         | µg/kg            |         | µg/kg         |  | µg/kg         |  |
|   |                     |  | 10/5/2020     |         | 10/5/2020        |         | 9/29/2020     |  | 9/29/2020     |  |
|   |                     |  | Field Sample  |         | Field Duplicate  |         | Field Sample  |  | Field Sample  |  |
| Results   | Q                   | Results                                    | Q             | Results | Q                | Results | Q             |  |               |  |
| 2-Butanone  | NL                  | 27000000                                   | 41 U          |         | 27 U             |         | 110 U         |  | 75 U          |  |
| Acetone   | NL                  | 61000000                                   | 41 U          |         | 28               |         | 110 U         |  | 75 U          |  |
| Bromoform   | 654                 | 190000                                     | 20 U          |         | 13 U             |         | 56 U          |  | 37 U          |  |
| SVOC SIM  |                     |  |               |         |                  |         |               |  |               |  |
| 2-Methylnaphthalene   | 20.2                | 240000                                     | 9.6 U         |         | 8.6 U            |         | 27 U          |  | 20 U          |  |
| Acenaphthene  | 5.9                 | 3600000                                    | 9.6 U         |         | 8.6 U            |         | 27 U          |  | 20 U          |  |
| Acenaphthylene  | 6.7                 | NL   | 9.6 U         |         | 8.6 U            |         | 27 U          |  | 20 U          |  |
| Anthracene  | 57.2                | 18000000                                   | 9.6 U         |         | 8.6 U            |         | 27 U          |  | 20 U          |  |
| Benzo(a)anthracene  | 108                 | 11000                                      | 7.6 J         |         | 5.8 J            |         | 9.3 J         |  | 6.8 J         |  |
| Benzo(a)pyrene  | 150                 | 1100                                       | 7.2 J         |         | 5.8 J            |         | 9.5 J         |  | 6.2 J         |  |
| Benzo(b)fluoranthene  | 190                 | 11000                                      | 13            |         | 10               |         | 13 J          |  | 11 J          |  |
| Benzo(g,h,i)perylene  | 170                 | NL   | 4.5 J         |         | 3.7 J            |         | 16 J          |  | 5.8 J         |  |
| Benzo(k)fluoranthene  | 240                 | 110000                                     | 4 J           |         | 3.6 J            |         | 27 U          |  | 4.8 J         |  |
| Chrysene  | 166                 | 1100000                                    | 8.8 J         |         | 7 J              |         | 21 J          |  | 7.4 J         |  |
| Dibenzo(a,h)anthracene  | 33                  | 1100                                       | 9.6 U         |         | 8.6 U            |         | 9.5 J         |  | 20 U          |  |
| Fluoranthene  | 423                 | 2400000                                    | 14            |         | 12               |         | 18 J          |  | 12 J          |  |
| Fluorene  | 77.4                | 2400000                                    | 9.6 U         |         | 8.6 U            |         | 27 U          |  | 20 U          |  |
| Indeno(1,2,3-cd)pyrene  | 17                  | 11000                                      | 4.6 J         |         | 3.7 J            |         | 7.9 J         |  | 4.8 J         |  |
| Naphthalene   | 176                 | 20000                                      | 9.6 U         |         | 8.6 U            |         | 27 U          |  | 20 U          |  |
| Phenanthrene  | 204                 | NL   | 5.5 J         |         | 4.4 J            |         | 11 J          |  | 5.8 J         |  |
| Pyrene  | 195                 | 1800000                                    | 13            |         | 12               |         | 11 J          |  | 12 J          |  |
| SVOCs   |                     |  |               |         |                  |         |               |  |               |  |
| Anthracene  | 57.2                | 18000000                                   | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Benzo(a)anthracene  | 108                 | 11000                                      | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Benzo(a)pyrene  | 150                 | 1100                                       | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Benzo(b)fluoranthene  | 190                 | 11000                                      | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Benzo(g,h,i)perylene  | 170                 | NL   | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Benzo(k)fluoranthene  | 240                 | 110000                                     | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Bis(2-ethylhexyl)phthalate  | NL                  | 390000                                     | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Butylbenzylphthalate  | NL                  | 2900000                                    | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Carbazole   | NL                  | NL   | 960 U         |         | 860 U            |         | 2700 U        |  | 2000 U        |  |
| Chrysene  | 166                 | 1100000                                    | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Dibenzo(a,h)anthracene  | 33                  | 110  | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Dimethylphthalate   | NL                  | NL   | 640           |         | 480              |         | 3100          |  | 1300          |  |
| Fluoranthene  | 423                 | 2400000                                    | 960 U         |         | 860 U            |         | 2700 U        |  | 2000 U        |  |
| Indeno(1,2,3-cd)pyrene  | 17                  | 11000                                      | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Phenanthrene  | 204                 | NL   | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |
| Phenol  | 420                 | 19000000                                   | 960 U         |         | 860 U            |         | 430 J         |  | 360 J         |  |
| Pyrene  | 195                 | 1800000                                    | 490 U         |         | 440 U            |         | 1400 U        |  | 1000 U        |  |

**Notes:**

Data compared to 10X the EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater sediment screening criteria (EPA, 1997)

Yellow highlight indicates exceedance of BTAG value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

J = Reported value is estimated; actual value may be higher or lower.

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µg/kg = micrograms per kilogram

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HQ = Hazard Quotient

NL = No listed value

PAH = polycyclic aromatic hydrocarbon

Q = Qualifier

RSL = Regional Screening Level

SIM = selective ion monitoring

SVOC = semivolatile organic compound

TR = Target Risk

VOC = volatile organic compound

Table 15  
Norwood Landfill  
Sediment Samples  
Inorganic Analytical Results Summary

| Sample ID:         | EPA BTAG<br>(µg/kg) | EPA RSL<br>Residential (10X)<br>(mg/kg) | NL-2020-SD-13 | NL-2020-SD-14 | NL-2020-SD-15 | NL-2020-SD-16 |              |   |
|--------------------|---------------------|---|---------------|---------------|---------------|---------------|--------------|---|
| CLP Sample Number: |                     |   | COAP6         | COAP7         | COAP8         | COAP9         |              |   |
| Units:             |                     |   | mg/kg         | mg/kg         | mg/kg         | mg/kg         |              |   |
| Sample Date:       |                     |   | 10/6/2020     | 10/6/2020     | 10/6/2020     | 10/1/2020     |              |   |
| Sample Type:       |                     |   | Background    |               | Field Sample  |               | Field Sample |   |
| Metals             |                     |   | Results       | Q             | Results       | Q             | Results      | Q |
| Aluminum           | NL                  | 77000                                   | 5300          | 4870          | 10800         | 15500         |              |   |
| Antimony           | 2                   | 31                                      | 1.6 U         | 1.1 U         | 2.2 U         | 1.6 U         |              |   |
| Arsenic            | 9.8                 | 6.8                                     | 6             | 2.3           | <b>8.5</b>    | 4.4           |              |   |
| Barium             | NL                  | 15000                                   | 67.8          | 23.6          | 114           | 87            |              |   |
| Beryllium          | NL                  | 160                                     | 0.49 J        | 0.19 J        | 0.73 J        | 0.8 U         |              |   |
| Cadmium            | 0.99                | 71                                      | 0.47 J        | 0.14 J        | 0.83 J        | 0.3 J         |              |   |
| Calcium            | NL                  | NL                                      | 2890          | 6460          | 5450          | 3310          |              |   |
| Chromium           | 43.4                | 120,000                                 | <b>132</b>    | 6             | 34            | 25.6          |              |   |
| Cobalt             | 50                  | 23                                      | 9             | 2.7           | 12.1          | 8.8           |              |   |
| Copper             | 31.6                | 3100                                    | <b>49.2</b>   | 13            | <b>60.5</b>   | 16.7          |              |   |
| Iron               | 20,000              | 55000                                   | 13400         | 10500         | <b>21700</b>  | <b>24400</b>  |              |   |
| Lead               | 35.8                | 4000                                    | <b>51.8</b>   | 19.1          | <b>89.1</b> J | 24.2          |              |   |
| Magnesium          | NL                  | NL                                      | 2320          | 3690          | 5410          | 5150          |              |   |
| Manganese          | 460                 | 1800                                    | 281           | 122           | <b>568</b>    | 327           |              |   |
| Mercury            | 0.18                | 11                                      | <b>0.37</b>   | 0.047 J       | <b>0.23</b>   | 0.17 U        |              |   |
| Nickel             | 22.7                | 1500                                    | <b>27.3</b>   | 5.4           | <b>24.7</b>   | 19.5          |              |   |
| Potassium          | NL                  | NL                                      | 1330          | 1930          | 2730          | 1550          |              |   |
| Selenium           | 2                   | 390                                     | 4 U           | 2.7 U         | 5.4 U         | 4 U           |              |   |
| Silver             | 1                   | 390                                     | 0.16 J        | 0.54 U        | 0.46 J        | 0.19 J        |              |   |
| Sodium             | NL                  | NL                                      | 129 J         | 601 U         | 197 J         | 205 J         |              |   |
| Thallium           | NL                  | 0.78                                    | 0.8 U         | 0.54 U        | 1.1 U         | 0.8 U         |              |   |
| Vanadium           | NL                  | 390                                     | 20.1          | 7.1           | 29.9          | 24.6          |              |   |
| Zinc               | 121                 | 23000                                   | <b>173</b>    | 48.1          | <b>296</b>    | 83.4          |              |   |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to 10X the EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater sediment screening criteria (EPA, 1997)

Yellow highlight indicates exceedance of BTAG value

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J = Reported value is estimated; actual value may be higher or lower.

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mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

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HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

RSL = Regional Screening Level

TR = Target Risk

Table 15  
Norwood Landfill  
Sediment Samples  
Inorganic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Type:<br>Metals | EPA BTAG<br>(mg/kg) | EPA RSL<br>Residential (10X)<br>(mg/kg) | NL-2020-SD-17 |         | NL-2020-SD-18 |         | NL-2020-SD-19 |         | NL-2020-SD-20 |    |
|--|---------------------|---|---------------|---------|---------------|---------|---------------|---------|---------------|----|
|  |                     |   | COAQ0         |         | COAQ1         |         | COAQ2         |         | COAQ3         |    |
|  |                     |   | mg/kg         |         | mg/kg         |         | mg/kg         |         | mg/kg         |    |
|  |                     |   | 10/1/2020     |         | 9/28/2020     |         | 10/1/2020     |         | 10/1/2020     |    |
|  |                     |   | Field Sample  |         | Field Sample  |         | Field Sample  |         | Field Sample  |    |
| Results  | Q                   | Results                                 | Q             | Results | Q             | Results | Q             | Results | Q             |    |
| Aluminum   | NL                  | 77000                                   | 11700         |         | 15600         |         | 13100         |         | 15000         |    |
| Antimony   | 2                   | 31                                      | 1.8           | U       | 1.8           | U       | 1.1           |         | 1.3           |    |
| Arsenic  | 9.8                 | 6.8                                     | 4.9           |         | 6.7           |         | <b>9.8</b>    |         | <b>8.6</b>    |    |
| Barium   | NL                  | 15000                                   | 97.8          |         | 125           |         | 153           |         | <b>277</b>    |    |
| Beryllium  | NL                  | 160                                     | 0.89          | U       | 0.76          | J       | 0.91          |         | 0.92          |    |
| Cadmium  | 0.99                | 71                                      | 0.53          | J       | 0.95          |         | 1.3           |         | <b>8.6</b>    |    |
| Calcium  | NL                  | NL                                      | 5880          |         | <b>9930</b>   |         | <b>9410</b>   |         | <b>11300</b>  |    |
| Chromium   | 43.4                | 120,000                                 | 30.3          |         | 30.8          |         | 35.5          |         | <b>907</b>    |    |
| Cobalt   | 50                  | 23                                      | 9.9           |         | 10.2          |         | 13.9          |         | 13.8          |    |
| Copper   | 31.6                | 3100                                    | <b>42</b>     |         | <b>62.3</b>   |         | <b>98.8</b>   |         | <b>364</b>    |    |
| Iron   | 20,000              | 55000                                   | <b>23100</b>  |         | <b>33100</b>  |         | <b>28500</b>  |         | <b>25000</b>  |    |
| Lead   | 35.8                | 4000                                    | <b>69.5</b>   |         | <b>94.5</b>   |         | <b>97.1</b>   | J       | <b>66.6</b>   | J  |
| Magnesium  | NL                  | NL                                      | 6330          |         | <b>7500</b>   |         | 6170          |         | 4420          |    |
| Manganese  | 460                 | 1800                                    | 194           |         | <b>727</b>    |         | <b>748</b>    |         | 433           |    |
| Mercury  | 0.18                | 11                                      | 0.18          | U       | <b>0.26</b>   |         | <b>0.35</b>   |         | <b>2</b>      |    |
| Nickel   | 22.7                | 1500                                    | <b>23.9</b>   |         | 21.3          |         | <b>79.1</b>   |         | <b>976</b>    |    |
| Potassium  | NL                  | NL                                      | 3030          |         | 1860          |         | 2270          |         | 1400          |    |
| Selenium   | 2                   | 390                                     | 4.4           | U       | 4.6           | U       | 2.5           | U       | 2.4           | U  |
| Silver   | 1                   | 390                                     | 0.28          | J       | 0.5           | J       | <b>1.4</b>    |         | <b>40.3</b>   |    |
| Sodium   | NL                  | NL                                      | 177           | J       | 193           | J       | 233           | J       | 268           | J  |
| Thallium   | NL                  | 0.78                                    | <b>0.21</b>   | J       | <b>0.2</b>    | J       | 0.5           | UJ      | 0.49          | UJ |
| Vanadium   | NL                  | 390                                     | 27.6          |         | 28.9          |         | 46.9          |         | 42.5          |    |
| Zinc   | 121                 | 23000                                   | <b>193</b>    |         | <b>257</b>    |         | <b>386</b>    |         | <b>1560</b>   |    |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to 10X the EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater sediment screening criteria (EPA, 1997)

Yellow highlight indicates exceedance of BTAG value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

J = Reported value is estimated; actual value may be higher or lower.

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

mg/kg = milligrams per kilogram

CLP = Contract Laboratory Program

BTAG = Biological Technical Assiatnce Group

HQ = Hazard Quotient

NL = No listed value

Q = Qualifier

RSL = Regional Screening Level

TR = Target Risk

Table 15  
Norwood Landfill  
Sediment Samples  
Inorganic Analytical Results Summary

| Sample ID:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Type:<br>Metals | EPA BTAG<br>(µg/kg) | EPA RSL<br>Residential (10X)<br>(mg/kg) | NL-2020-SD-21 |         | NL-2020-SD-21-01 |         | NL-2020-SD-22 |  | NL-2020-SD-23 |  |
|--|---------------------|---|---------------|---------|------------------|---------|---------------|--|---------------|--|
|  |                     |   | COAQ4         |         | COAT5            |         | COAQ5         |  | COAQ6         |  |
|  |                     |   | mg/kg         |         | mg/kg            |         | mg/kg         |  | mg/kg         |  |
|  |                     |   | 10/5/2020     |         | 10/5/2020        |         | 9/29/2020     |  | 9/29/2020     |  |
|  |                     |   | Field Sample  |         | Field Duplicate  |         | Field Sample  |  | Field Sample  |  |
| Results  | Q                   | Results                                 | Q             | Results | Q                | Results | Q             |  |               |  |
| Aluminum   | NL                  | 77000                                   | 10800         |         | 11700            |         | <b>37100</b>  |  | 8690          |  |
| Antimony   | 2                   | 31                                      | 2.5 U         |         | 2.8 U            |         | 1 UJ          |  | 0.99 U        |  |
| Arsenic  | 9.8                 | 6.8                                     | 5.7           |         | 6.3              |         | <b>16.7</b>   |  | 4.8           |  |
| Barium   | NL                  | 15000                                   | 97            |         | 111              |         | <b>267</b>    |  | 100           |  |
| Beryllium  | NL                  | 160                                     | 0.78 J        |         | 0.88 J           |         | <b>2</b>      |  | 0.66          |  |
| Cadmium  | 0.99                | 71                                      | <b>1.1</b> J  |         | <b>1.2</b> J     |         | <b>2.2</b>    |  | 0.6           |  |
| Calcium  | NL                  | NL                                      | 4710          |         | 4950             |         | <b>10300</b>  |  | 3260          |  |
| Chromium   | 43.4                | 120,000                                 | 28.9          |         | 33.2             |         | <b>150</b>    |  | 33.2          |  |
| Cobalt   | 50                  | 23                                      | 9.4           |         | 10               |         | 20            |  | 6.3           |  |
| Copper   | 31.6                | 3100                                    | <b>51.8</b>   |         | <b>56.9</b>      |         | <b>288</b>    |  | <b>54.1</b>   |  |
| Iron   | 20,000              | 55000                                   | <b>24300</b>  |         | <b>26500</b>     |         | <b>46700</b>  |  | <b>15300</b>  |  |
| Lead   | 35.8                | 4000                                    | <b>61.1</b>   |         | <b>69</b>        |         | <b>198</b>    |  | <b>52.1</b>   |  |
| Magnesium  | NL                  | NL                                      | 4170          |         | 4480             |         | <b>8150</b>   |  | 2480          |  |
| Manganese  | 460                 | 1800                                    | <b>457</b>    |         | <b>428</b>       |         | <b>1140</b>   |  | <b>690</b>    |  |
| Mercury  | 0.18                | 11                                      | <b>0.2</b> J  |         | <b>0.35</b>      |         | <b>0.9</b>    |  | <b>0.27</b>   |  |
| Nickel   | 22.7                | 1500                                    | 16.7          |         | 18.8             |         | <b>54.5</b>   |  | 16.4          |  |
| Potassium  | NL                  | NL                                      | 1470          |         | 1590             |         | 2060          |  | 1020          |  |
| Selenium   | 2                   | 390                                     | 6.2 U         |         | 7 U              |         | <b>2.8</b>    |  | 1.1 J         |  |
| Silver   | 1                   | 390                                     | 0.36 J        |         | 0.44 J           |         | <b>1.7</b>    |  | 0.44 J        |  |
| Sodium   | NL                  | NL                                      | 1270 U        |         | 1450 U           |         | <b>687</b>    |  | 353 J         |  |
| Thallium   | NL                  | 0.78                                    | 1.2 U         |         | 1.4 U            |         | 1 U           |  | 0.49 U        |  |
| Vanadium   | NL                  | 390                                     | 19.5          |         | 21.6             |         | <b>99</b>     |  | 24.7          |  |
| Zinc   | 121                 | 23000                                   | <b>215</b>    |         | <b>241</b>       |         | <b>731</b>    |  | 166           |  |

**Notes:**

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

Data compared to 10X the EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, 2020) and EPA BTAG freshwater sediment screening criteria (EPA, 1997)

Yellow highlight indicates exceedance of BTAG value

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TR = Target Risk

**APPENDIX A**  
**LOGBOOK NOTES**



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ALL-WEATHER

**FIELD**

NO. 351FX

Morwood Landfill

Logbook # 1

Sta. #1 - 03/17/2020



Name Tetra Tech  
1777 Sentry Parkway west  
 Address Building 12, Suite 102  
Blue Bell PA 19422  
 Phone 215-648-3950

Project Morwood Landfill  
 # 103X903403004

PM: **(b) (4)**

CORE - 1-855-683-9006  
 Emergency 911

Taylor Hospital  
175 E Chester Pk  
Ridley Park, PA  
610-595-6000



RiteintheRain.com

## CONTENTS

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| 5-8  | GPR             | 9/24/20          |
| 9-24 | S.I. Assessment | 9/28 - 10/6/2020 |

## Signature Page

| Name    | Signature | Initial | Date      |
|---------|-----------|---------|-----------|
| (b) (4) |           | ⊙       | 8/18/2020 |

Normand Recon

8/18/2020

Date 8/18/2020  
 Staff: (b) (4) (7)  
 0920 Arrive at Normand Park  
 staying area.  
 Liss, Gary, Lise, Bill (President Council)  
 IOIS Joe (EPA) ons. Fr  
 Weather: High 84 low 66  
 Sunny winds NW 3 mph  
 Start Estn w/ILC Recon  
 rd mark soil boring  
 points  
 Dnt mark SS/SB-22, 23, 24  
 25, 26, 27 & 21.  
 SS/SB-21 is background.  
 Also dnt walk to  
 SS/SB-40, 41, 42, 43, 44  
 due to heavy vegetation  
 and those locations will  
 be sampled with a  
 hand auger.  
 Location SS/SB-31 will  
 be inside Muck pumpin-  
 Station fence not  
 on the outer corner  
 SS/SB-35 will be moved

4 Norwood Recon 8/18/2020  
to be in line with  
SS/SB-30 and SS/SB-34,  
1330 Depart site.  
head to Newark office  
to drop off Stet  
equipment.  
1430 Valued equipment and  
back-up timber data

(b) (4)

8/18/2020

Norwood plot 4 9/27/2020 5  
Date 9/27/2020  
Event: GPR soil Dormijs  
Weather: High 79 Low 59  
Partly cloudy  
0645 (b) (4) (tetra Tech)  
arrives onsite  
0650 Brian with Master Locster  
onsite  
0700 Joe Centrone (Delcora)  
arrives onsite.  
0710 Joe Vitello (EPA) onsite.  
H&S Topic Biological Hazards  
Dogs and People, struck by  
0745 Start at SS/SB-37  
all clear. water main  
in the middle of the road.  
0815 Start SS/SB-38  
all clear. water main  
is the road and another line  
near the road/water line.  
0830 Start SS/SB-39  
Homeowner came out and  
talked to Joe.  
(b) (6)  
all clear. one water line  
between 1st and 2nd point (b) (4)

8 No/mood 9/24/2020 Pg 2 of 4

0900 Start clearing around SS/SB-36

All clear. Marked main line.

0930 Start clearing around SS/SB-22  
Gw-02

Gas line in the middle  
of the soccer field.

0955 Start on SS/SB-24  
Area clear. unknown line

Now proposed location

moved ~10' toward SS/SB-37

1020 Start on SS/SB-34

All clear

1035 Start on SS/SB-33  
buried nets right near  
the stakes

move point 5' away.

1050 Start on SS/SB-32

All clear.

1105 Start on SS/SB-23  
middle of baseball field

100' from second base  
in cents field.

1130 Move onto Delcora property

Mark SS/SB-31

All clear

(b) (4) 9/24/20

No/mood 9/24/20 Pg 3 of 4

1145 Start Clearing SS/SB-29

All clear

Communication line

now point moving point  
5' toward side Gate  
on fence.

1200 Start Clearing SS/SB-28

Move point closer to  
fence due to gravity

sewer connection

J. Vitello calls J. Contron.  
to talk about the  
sewer connection

1215 Start on SS/SB-30

All clear.

1230 Start on SS/SB-35

Point is in clearing,

near Delcora property

1300 Start on SS/SB-27

Point is in front of

558 E Winona Ave.

Get Owner at 558 E Winona

talks with [redacted] (EPA)

(b) (6)

- Resident

Call for the sanitary sewer

(b) (4)

9/24/20  
Rite in the Rain

8 Norwood 9/24/2020 pg 4 of 4

The Gas line, sanitary and water lines are marked in the road and to the house.

1430 Skip over SS/SB-26 due to time restrictions and cars parked over location.

1435 Start clearing SS/SB-25 Area cleared. location near Deon and E Vinona Ave intersection.

1520 Start clearing on SS/SB-21 All clear

1615 Depart site to return to office after call with M. Shannon

(b) (4)

9/24/20

Norwood

9/28/2020

pg 1 of 3

9

Date 9/28/2020

Weather 70°F Mostly Cloudy

0700 Arrive onsite

(b) (4)

onsite

0715 ECDI onsite (b) (4)

0720 (b) (4) onsite

0745 S Vitello (EPA) onsite

Conduct H&S Meeting

Topics: Slips, trips & falls  
Repetitive motion

0810 Mob to SS/SB-21 location

Complete Rig Check.

(0845) Collect ~~SS-21~~ SS-210-1'

(0900) Collect SB-21 15-16'

Set well GW-01 20' well with 10' screen.

0930 Wrap up SS/SB-21 and

head to SS/SB-25

(0955) Collect SS-25 1-2'

(1005) Collect SB-25 5-6'

Retreat at 10'

Set well with 5' screen.

Mob to SS/SB-27

1100 Set up on SS/SB-27

(1115) Collect SS-27 0-1'

(b) (4)

9/28/20

Rite in the Rain

10 9/28/20

Normal

Pg 2 of 3

(1130) Collect SB-22 12-13'

Set Temp well with  
10' screen and 3' of riser.

Load up geoprobe and head  
toward SS/SB-31.

1200 Get Access to Delcom

(1230) Collect SS-31 0-1'

(1245) Collect SB-31 14-15'

Set well at 20' with  
10' screen.

1325 Depart Delcom property

1400 Start on SS/SB-37A

1415 Refusal at 7' on 37A  
no samples collected from  
this location

1435 Refusal at 7' on 37B  
location is the roadway.

1455 Triet two holes and hit  
a rock at 2' BGS.  
Move point filter into the  
woods.

Triet two more places for  
37C in the woods and  
hit refusal at 2'.

1515 Collect SS-37 at point A  
0-1'

(b) (4) 9/28/2020

7/28/2020

Normal

Pg 3 of 3

11

(1520) Collect SB-37 6-7'  
at point A closest to  
the fence.

1540 Joe V. Iello (EPA) offsite

1600 Drillers drop off drill  
rig at the Highway  
Shop.

1605 (b) (4) offsite  
and starts sample management.

Time Note out of order

Set Temp well with 5'  
screen at SS/37.

Help (b) (4) and (b) (4) finish  
sediment sample

1630 (b) (4)

offsite

(b) (4)

9/28/2020  
hit in the rain

Date 9/29/2020  
 Event Norwood Assessment  
 Weather High 75 Cloudy  
 80% Rain

0700 (b) (4)  
 and (b) (4) (Tetra Tech)  
 onsite

0720 J. Vitello (EPA) onsite.

0730 ECDI onsite (b) (4)

H&S Topic

Slips, trips and falls. Thunderstorms  
 chased in the afternoon.

0800 Start at SS/SB-24

0805 Collect SS-24 0-1'

0815 Collect SB-24 6-7'  
 Refusal at 12' water at 8'

0835 Finish SS/SB-24 track over  
 to SS/SB-34

0855 Collect SS-34 0-1'

0900 Collect SB-34 6-7'

0940 Finish at SS/SB-34 (end of  
 end haul) to SS/SB-39  
 Start at point 39 C in the  
 woods

1020 Collect SS-39 0-1'

(b) (4) 9/29/2020

1030 Collect SB-39 13-14'  
 water at 14' stopped  
 cutting soil fairly.  
 SS/SB-39 B in  
 the woods near ground pull off  
 Hit water at 13'  
 Bunch of trash/glass in the  
 boring at the 9' mark.  
 SS/SB-39 A Near the  
 road/parking area.

1145 Collect SS-39A 0-1'  
 plus Dioxin turn end log for  
 Dioxin from @ 1215

1200 Collect SB-39A 11-12'  
 Set Temp well at 20'  
 with a 10' screen.

Take a drink/lunch break  
 1300 Track over to SS/SB-38  
 start at 38C location  
 in the woods ~40' from  
 roadway  
 Hit Refusal at 9' at 38C  
 Hit Refusal at 9' at 38B

1400 Collect SS-38 0-1'

1405 Collect SB-38 5-6'

(b) (4) 9/29/2020 *hit in the rain*



9/29/20

Norwood

By 3:13

1445 Start at SS/SB-36C

Point between road/creek

1452 Refusal at 36C at 14'

Heavy rains stop work

and end field sampling day

1530 Drillers offsite after

storing rig at the highway shop.

1533 J. Vitello (EPA) offsite

1545 (b) (4) offsite

1600 (b) (4)

offsite

(b) (4) and (b) (4)

have all of today's samples

and will QA and

ship them.

(b) (4)

9/29/20

9/30/20

Norwood

PS 1 of

Date: 9/30/2020

Event: Norwood Assessment

Weather: High 70 Low 55

Cloudy winds w/ 11 mph

0700 (b) (4) (tetra tech) onsite

0720 J. Vitello (EPA) onsite

0730 ECDI onsite (b) (4)

0740 Transition Engineering Surveying (b) (4) onsite

0725 Greg Lage (Borough Council) Tim note at of order.

HAS Topic slips, trips, falls making new locations

(b) (4) & (b) (4) stat.

development of wells and

show surveys with locations

0800 Track #0 SS/SB-23

0870 Collect SS-23 0-1'

0875 Collect SB-23 16-17'

0905 Finish SS/SB-23

track # - SS/SB-28

0920 Collect SS-28 0-1

0940 Collect SB-28 15-16'

Press onsite

(b) (4)

9/30/20

Rite in the Rain

Norwood 9/30/20

Page 2 of 3

Pete Brennan (Delaware County Daily Times)

J. Vitello gave him a high level overview of the work being performed and the website information.

1005-1010 Pete Brennan offsite.

Track to SS/SB-36

have 2 locations to screen

(1100) Collect SS-36 0-1'  
also collect 1-8oz jar for  
Drexler/ferrous

(1110) Collect SB-36 5-6'

1130 Start boring at SS/SB-36 A  
location closest to the residence.

1200 Track over to SS/SB-33

1215 Start SS/SB-33

(1230) Collect SS-33 0-1'

Duplicate time ~~1300~~ (1245)

(1250) Collect SB-33 9-10'

Duplicate time (1300)

Get keys for Delaware from

(b) (4)

1345 Talk over point SS/SB-33  
with J. Cristone (Delaware)

© 9/30/2020

9/30/20

Pg 3 of 3

He says we are clear  
of the line.

(1430) Collect SS-35 0-1'

(1440) Collect SB-35 10-11'

Track out and lock

Delaware fences/Gates

1530 ECRJ offsite

1535 J. Vitello offsite

1630 (b) (4)

finish site, correct for  
access points for SW

Sampling and deposit  
with today's samples  
for shipment

1635 (b) (4)

offsite

(b) (4)

9/30/20

Date 10/1/2020  
Event Norwood Assessment

Staff (b) (4)  
(b) (4)

0645 Titra Tech onsite  
weather High 73 Low 53  
wind SW S MPH

HQS Topic Slips, trips falls  
working near water  
Drilling

Set up other team (with, near staff)  
on SW/SB location

0720 ECDI onsite (Joe & Austin)

0725 J. U. Jello onsite (EPA)

0735 Another H&S Talk about

Head over to Dellora property  
and track to SS/SB-30  
location outside the gate  
away from the main entrance  
to the pump house.

(0825) collect SS-30 0-1'

(0845) collect SB-30 14-20'

Lock up gates to Dellora  
property.

Track over to SS/SB-32  
on the map its SS/SB-28.

(b) (4) 10/1/20

(0945) collect SS-32 0-1'

(0950) collect SB-32 7-8'

(1015) collect Rossette Block

Track over to SS/SB-29

(1045) collect SS-29 0-1'

(1050) collect SB-29 8-9'

Finished borings.

Drillers clean up rig and  
load up.

1200 Drop 2 labeled drums  
in the highway shop yard  
near the building back door.  
1 (IDW/Purge water DRUM).  
1 (Soil cutting drum 1/3 full).

1220 check GW-02 DRY

Pull and abandon well

1240 check GW-05 DRY

Pull and abandon well.

1300 ECDI offsite.

1310 Pull and abandon GW-04.

1310 B:) J. U. Jello (President Council) onsite.

Bill talks with J. U. Jello  
about the work being done.

and future work to be  
performed on 10/2 and Monday 10/5.

(b) (4) 10/1/20  
*Return in the Rain*

20 10/1/2020 Norwood. P 343

1535 Pull out abandon GW-03  
Place all patch over hole  
and knock it down to  
even with the rest of  
the surface.

1600 Dump purge water in IDW  
drum and head to  
Nenack office to complete  
sample management and  
Ship 8 coolers.

(b) (4)

10/1/2020

10/5/2020 Norwood P 342

10/5/2020

Shift (b) (4)

0730 Arrive on site

Weather High 66  
Cloudy winds

AGS Topic: Slips, trips  
Biological he  
working per note

Calibrate Horiba N-52 see 10j  
Set up on GW-06

0810 Start purge of GW-06.

0850 well stable

0850 Collect Trip blank sample

0855 collect GW-06 and  
duplicate sample @ 1200.

1000 Finish collecting sample/duplicate  
Pull and abandon well

1030 collect SD-21  
and duplicate at 1600

1105 Arrive back at the  
truck organize vehicle  
and head to dump  
purge water in drum.

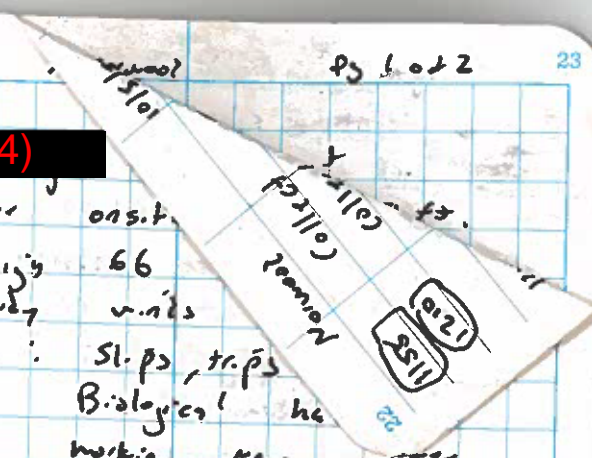
1120 Start purge on GW-01

1152 Finish purge on GW-01

(b) (4)

10/5/20

Write in the Rain



Norwood

10/5/2020

Pg 2 of 2

(1158)

Collect Sample GW-01

(1210)

collect AB-01 during  
Sample of GW-011246 Pull GW-01 and abandon the  
location.Dump purge water and  
secure drums

1 soil Drum 1/3 full

1 water Drum

DTW 1.02'

DTS 2.80'

~ 20 Gallons in Drum

1315 Talk to Bill (President's cousin)

Action 3 was omitted and  
asking him follow up  
questions.

1330 Depart site and

head to Newark office  
to complete Sample  
management.

1700 Drop 4 coolers off

for shipment.

Prep bottles for next

day sampling

1800 End of Day

(b) (4)

10/5/2020

10/6/2020

Norwood

Pg 1 of 2

10/6/2020

Event  
Staff

Norwood

Assessment

(b) (4)

(b) (4)

Weather: High 22 Low 55 Mostly Sunny

Hd S Topic Slips, trips falls

working Near water

0700 Team arrives onsite and

starts prep for sampling

Open Delaware gate

and head to SD/SW-15.

(0740)

Collect SD-15 and MS/MSD  
for metals and f

(0740)

Collect SW-15 and MS/MSD  
for PCBs and Pesticides

(0815)

Collect SD/SW-14

(0910)

Collect SD/SW-13

also collect SW-13 Duplicate  
at (1200).

(0915)

Collect AB-02

at SW-13 Location.

Talk with Joe Centroni (Delcom)

and let him know that

we completed the sampling  
of the creek

(b) (4)

10/6/2020

24 10/06/2020 Nerwood PG 2 of 2.

1050 Depart site and head  
back to the Newark office  
to unpack sampling truck  
and start packing coolers  
and complete sample management.

Felix Environmental picks up  
the rental trimble, Horiba,  
water tape and per. pump.

1630 Pack and ship 7 coolers  
and end the end the case  
End of Day

(b) (4)

10/06/2020

Rite in the Rain

Monday 9/28/2020 Norwood 1 of 1

0915 Arrive at NL-~~2020~~<sup>RM</sup>2020-40  
 0930 Start sampling NL-~~2020~~<sup>RM</sup>2020-SS-40  
 1000 Start sampling NL-2020-SB-40  
 1020 Arrive at NL-2020-41  
 1030 Start sampling NL-2020-SS-41  
 1100 Start sampling NL-2020-SB-41  
 1130 Water break  
 1200 Arrive at NL-2020-42  
 Start soil Boring  
 1215 start sampling 0-6"  
 1300 start sampling 24"-36"  
 DUP included in sample  
 1330 DUP sample taken  
 1420 Break  
 1440 Arrive at NL-2020-SW/SD18  
 1500 Start sampling NL-2020-SW18  
 1600 Start sampling NL-2020-SD18  
 1630 Leave site

9/29/2020

Tuesday 9/29/2020 Norwood 1 of 1 3

0915 Arrive at NL-2020-44  
 0930 Start boring NL-2020-SS-44  
 0940 Homogenize NL-2020-SS-44  
 0945 Start sampling NL-2020-SS-44  
 0950 Bore 6" - 36"  
 1000 Homogenize NL-2020-SB-44  
 1010 Start sampling NL-2020-SB-44  
 1030 Arrive at NL-2020-43 <sup>with MS/MSD</sup>  
 1035 Start boring NL-2020-SS-43  
 1040 Homogenize NL-2020-SS-43  
 1045 Start sampling NL-2020-SS-43  
 1050 Bore 6" -  
 1055 Homogenize NL-2020-SB-43  
 1100 Sample NL-2020-SB-43  
 1145 GC sample + decon  
 1215 Break  
 1245 Recon Delcore access  
 1315 Head to SD-21, 22, 23  
 1430 Arrive at NL-2020-SD23  
 1435 Start clearing for sampling  
 1440 Start sample NL-2020-SD23  
 1500 Start sample NL-2020-SD22\*  
 1540 Leave site NL-2020-SD parking area  
 1600 Leave site  
 \* NL-2020-SD22 in GPS as SD-23-change  
 NL-2020-SD23 in GPS as SD-23-2020  
 Put in the Rain.

4 Wednesday 09/30/2020 Norwood Lof 2.

0805 arrive at NL-2020-GW04

0833 initial depth to water 14.60 ft

0850 started pumping

— no

1030 final depth to water 14.61 ft

1030 stopped pumping because min. volume  
purged reached, stabilization achieved,  
turbidity less than 10. well not dry.

1045 left NL-2020-GW04

1145 arrive at NL-2020-GW01

1148 initial depth to water 12.53 ft

1155 started pumping.

1240 stopped pumping - stab development complete.

final depth to water 12.85

well not dry.

1245 left NL-2020-GW01

1305 arrive at NL-2020-GW03

1313 initial depth to water 4.25 ft

1318 well ~~is~~ dry went dry

1321 restart + measure

1323 dry

1328 restart + measure

1331 dry

1337 restart + measure

1338 dry. development complete.

1341 final depth to water 5.40 ft

NORWOOD 2 of 2

5

1400 left NL-2020-GW03

1405 arrived at NL-2020-GW05

1405 well is dry - no measurements

~~1405~~ 1410 left NL-2020-GW05

1415 arrived at NL-2020-GW00

1417 initial depth to water 9.13 ft

1420 started pumping

1441 stopped pumping. development complete

1445 final depth to water 10.38 ft

1450 left NL-2020-GW00

1505 arrive at NL-2020-GW02

1525 well is dry. no measurements.

1530 left NL-2020-GW02

1530-1630 Recon for SW + SD sampling  
access points.

(b) (4)

09/30/2020

Rite in the Rain



6 Thursday 10/01/20 Norwood

1 of 1

~~at~~ ms

0715 arrived at NL-2020-SW/SD17

<sup>0725</sup> sampled surface water

<sup>0720</sup> sampled sediment NL-2020-SD17

0815 arrived at NL-2020-SD20

0820 sampled sediment

0840 arrived at NL-2020-SD16/SW16

0845 sampled sediment

0850 sampled surface water

0915 arrived at NL-2020-SD19

0920 sampled sediment

1115 arrived at NL-2020-GW04

1130 started pumping

1158 pump failed

1201 pump restarted

1225 sampled groundwater including ms/msd

1315 left GW04

1330 dumped decon in assigned drum.

1345 arrived at NL-2020-GW03

1350 started pumping

1354 well dry. letting well recharge

1405 sam ms

1400 well regauged

1405 sampled groundwater

1530 left GW03

1535 dumped decon in assigned drum



Name Tetra Tech  
1777 Sentry Parkway west  
 Address Building 12, Suite 102  
Blue Bell PA 19422  
 Phone 215-648-3950

Project Norwood Landfill  
# 103X 903403004  
 PM: (b) (4)

CORE - 1-855-683-9006  
 Emergency 911  
 Taylor Hospital  
 175 E Chestnut Pkwy  
 Ridley Park, PA  
 610-595-6000



RiteintheRain.com

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*pm*

24 10/06/2020 Norwood? PG 2 of 2.

1050 Depart site and head back to the Newark office to unpack sampling truck and start packing coolers and complete sample management. Field Environmental picks up the rental trimble, Horiba, water tape and per. pump.  
1630 Pack and ship 7 coolers and end the end the case  
End of Day

(b) (4)

③

10/06/2020

11/10/2020 NORWOOD RESIDENTIAL 1 of 4 25

54°F Sunny  
0745 (b) (4) and (b) (4) arrive onsite  
0800 Tailgate meeting  
0840 arrive at (b) (6) no one home  
0850 resident is home and grab note. Flagged sampling locations Sample NLR-CS-101  
0855: Sample NLR-SS-101 @ 01 of comp  
NLR-CS-101 01- Shed  
02- Back deck  
03- side garbage cans  
04- metal ramp  
05- wood ramp  
(b) (4)  
0920- label/sample management  
0925- GPS all locations + survey 123  
0940- Head to next resident  
1000 - arrive at (b) (6) (104)  
1005 - Flag sampling points (Residents home) DUP @ 1200  
1010 - Sample NLR-SS-104 @ 01 of comp  
1015 - Sample NLR-CS-104 01- Garden  
DUP @ 1205 02- back deck stairs  
03- end of drive way  
(b) (4) 04- front deck stair  
05- side patio  
1035 - Sample management  
(b) (4)

11/10/2020

11/10/2020

1045 GPS locations + Survey 123

1100 Head to next resident

1110 Arrive @ (b) (6) (105)

1115 Flag sampling points (resident's home)  
did not talk to resident  
took flier from mailbox

1120 Sample NLR-SS-105 @ 01 of comp  
MS/MSD taken

1125 Sample NLR-CS-105 01- garden  
MS/MSD taken 02- storage unit by driveway  
03- side door  
(b) (4) 04- shed  
05- back deck

1135 Sample management

1145 GPS locations + <sup>survey em</sup> Sample 123

1200 Bathroom / lunch break

1230 Arrive @ (b) (6) (109)

1240 Talk to resident about yard

1245 Flag out sampling points

1255 Sample NLR-SS-109 @ 01 of comp

1300 Sample NLR-CS-109 01- garden  
02- back porch stairs  
03- front gate  
04- front stairs  
05- front sidewalk

(b) (4)

11/10/2020

1315 Sample management

1320 GPS locations + Survey 123

1330 Head to next resident

1335 Arrive @ (b) (6) (113)

1340 Talk to resident about yard

1345 Flag out sampling points

1350 Sample NLR-SS-113 @ 01 of comp

1355 Sample NLR-CS-113 01- in front of garden  
02- by shed  
03- back yard pathway  
04- front yard path  
05- front porch  
(b) (4)

1357 Sample management

1400 GPS locations + Survey 123

1405 Arrive @ (b) (6) (114)

1410 Resident home, talked briefly

1411 Flag out sampling points

1415 Sample NLR-SS-114 @ 01 of comp

1420 Sample NLR-CS-114 01- front garden  
02- back deck stairs  
03- back gate  
04- laundry line  
05- shed  
(b) (4)

1425 Sample management

1430 GPS locations + Survey 123

(b) (4)

11/10/2020 in 26 Rain

1440 pack up car  
1445 (b) (4) offsite to office to pack coolers

(b) (4)

65°F cloudy chance of rain @ 1200

0750 (b) (4)

arrive onsite

0800 Tailgate meeting

0820 arrive at (b) (6) (102)

talk to resident - signed agreement - made copy to keep

0830 Flag sample locations

0840 Sample NLR-SS-102 @ 01 of comp

0845 Sample NLR-CS-102 01-back porch (glass found) 02-garbage 03-gate path 04-side door 05-front door

(b) (4)

0850 Sample management

0900 GPS locations + Survey 123

0905 Head to next property

arrive at (b) (6) (106)

no one answered door to sign agreement

0910: head to (b) (6) (116)

no one answered door to sign agreement

0915: head to (b) (6) (120)

0920 Arrive - talk to resident briefly + hand slip/pamphlet

0925 Flag sample locations

(b) (4)

11/11/2020

0930 Sample NLR-SS-120 @ 01 of comp  
 0935 Sample NLR-CS-120 01- back porch  
 02- shed #1 (new)  
 03- shed #2 (old)  
 04- BBQ  
 05- front porch

(b) (4)

0940 Sample management  
 0950 GPS locations + Survey 123 @ (122)  
 leave property; arrive at 550 Winona Ave  
 0955 Resident did not answer door,  
 left pamphlet in mail box

1000 Flag sample locations

1005 Sample NLR-SS-122 @ 01 of comp

1010 Sample NLR-CS-122 01- kids dirt + pile  
 02- shed  
 03- back gate  
 04- side door  
 05- front porch

(b) (4)

1015 Sample management

1020 GPS locations + Survey 123  
 leave property

1025 arrive at (b) (6) (128)

none answered door to sign agreement

1030 arrive at (b) (6) (124)

1032 Talk to resident briefly, gave pamphlet

(b) (4)

11/11/2020

11/11/2020

1035 Flag sample locations

1040 Sample NLR-<sup>SS</sup>-124 @ 01 of comp

1045 Sample NLR-CS-124 01- side deck stairs  
 02- back deck stairs  
 03- back driveway  
 04- front driveway  
 05- front porch

(b) (4)

1050 Sample management

1055 GPS locations + Survey 123

leave property

1100 Arrive @ (b) (6) (127)

1102 Talk to resident + give pamphlet  
 had to move dogs

1105 Flag sample locations

1110 Sample NLR-SS-127 @ 01 of comp

1115 Sample NLR-CS-127 01- deck stairs  
 02- ramp access

(b) (4)

03- back gate

04- front gate

05- front porch

1120 Sample management

1125 GPS locations + Survey 123

leave property

bathroom / water break

1200 arrive at (b) (6) (129) <sup>rem</sup>

(b) (4)

11/11/2020

- 1202 Talk to resident + give pamphlet
- 1205 Flag sample locations
- 1210 Sample NLR-SS-134 @ 01 of comp
- 1215 Sample NLR-CS-134 01-back porch

- 02-shed
- 03-gate
- 04-side door
- 05-front porch

- 1220 Sample managements
- 1225 GPS locations + Survey 123
- start to rain (169)

1235 Get signature from (b) (6) leave

1240 Arrive @ (b) (6) (134)

1242 Talk to resident, helped open back gate

- 1245 Flag sample locations
- 1250 Sample NLR-SS-134 @ 01 of comp
- 1255 Sample NLR-CS-134 01-back deck

- 02-shed
- 03-gate
- 04-side door
- 05-front porch

1300 Sample management

1310 GPS locations + Survey 123 (b) (4) 11/11/2020

1330 leave site

1335 Arrive @ (b) (6) (135)

1337 Talk to resident, wanted more detail + referred the pamphlet

1340 Flag sample locations

1345 Sample NLR-SS-135 @ 01 of comp

1350 Sample NLR-CS-135 01-back patio

- 02-table
- 03-bench
- 04-past gate concrete front porch
- 05-

1355 Sample management

1400 GPS locations + Survey 123

1420 (b) (4) offsite to office for Sample management / coolers

(b) (4)

34 11/12/2020

66°F Rain

Norwood 1 of 5

0735: (b) (4), and

Master locators on site.

0800: tailgate meeting; (b) (4) on site.

0810: arrive at (b) (6) (106)

(b) (4) and (b) (4) depart meeting location

resident signs agreement form at 106

0815 Talk to resident, get signature, give pamphlet

0820 Flag sample locations

0825 Sample NLR-SS-106 @ 01 of comp

0830 Sample NLR-CS-106 01 - back deck

02 - BBQ

(b) (4)

03 - shed / side door

04 - driveway

05 - front porch

0845 Sample management

0850 GPS locations + Survey 123

0855 leave property

0900 Arrive @ (b) (6) (116)

No one home / No answer

0905 Arrive @ (b) (6) (138)

0910 Talk to resident + give pamphlet

0912 Flag sampling locations

0915 Sample NLR-SS-138 @ 01 of comp

0920 Sample NLR-CS-138

(b) (4)

11/12/2020

11/12/2020

NORWOOD RESIDENTIAL

2 of 5

01 - back porch (sampling locations

02 - BBQ @ 138)

03 - shed

04 - side door (b) (4)

05 - front porch

0930 Sample management

0940 GPS locations + Survey 123

0945 leave + arrive @ (b) (6) (137)

0947 Talk to resident + get signature

0950 SOB (12m) (138) resident requested

deep sampling + referred her to call EPA today to get utility clearing completed.

0955 Arrive @ (b) (6) (140)

0957 No answer, pamphlet in mail box

1000 Flag sample locations

1005 Sample NLR-SS-140 @ 01 of comp

1010 Sample NLR-CS-140

01 - deck stairs

02 - back patio

(b) (4) 03 - shed

04 - gate

05 - path in front by driveway

1015 Sample management

1020 GPS locations + Survey 123

(b) (4)

11/12/2020  
*Time in the Rain*



1025 Resident talked about gardens  
leave property

1030 Arrive @ (b) (6) (116) —  
No answer, leave

1040 Arrive @ (b) (6) (1168) —  
No answer, leave

1045 Arrive @ (b) (6) (142) —  
1047 NO answer, pamphlet in mailbox

1050 Flag sample locations

1055 Sample NLR-SS-142 @ 01 of comp

1100 Sample NLR-CS-142 01- back deck

- 02- shed
- 03- fire pit
- 04- side door
- 05- front path

(b) (4)

1105 Sample management

1110 GPS locations + Survey 123

1115 leave

1117 Arrive @ (b) (6) (145)

1120 No answer, left pamphlet in mailbox

1125 Flag sample locations, can hear  
people inside

1130 Sample NLR-SS-145 @ 01 of comp

1135 Sample NLR-CS-145 01- gate

- 02- garde
- 11/12/2020

(b) (4)

03- storage container shed <sup>Rm</sup> →

04- storage container

05- front driveway

1140 Sample management

1145 GPS locations + Survey 123

1150 Leave property, 10 min break

1200 Arrive @ (b) (6) (144) —

1202 Talk to resident about yard +  
give pamphlet

1205 Flag Sample locations

1210 Sample NLR-SS-144 @ 01 of comp

1215 Sample NLR-CS-144 01- path to <sup>back</sup> yard

- 02- shed
- 03- fire pit
- 04- front porch  
side stairs
- 05- front porch  
front stairs

(b) (4)

1220 Sample management

1225 GPS locations + Survey 123

1230 leave property, Bathroom break

1245 Arrive @ (b) (6) (148)

gave pamphlet to resident

1300: Flag Sample locations <sup>ms/msd</sup>

1310: Sample NLR-SS-148 @ 01 of comp

1315: Sample NLR-CS-148 <sup>DUPO2: NLR-SS-148-01</sup>  
<sup>@ 1500</sup>

<sup>ms/msd</sup> <sup>DUPO2: NLR-CS-148-01</sup>  
<sup>@ 1515</sup>

(b) (4)

11/12/2020 <sup>in the rain</sup>

1315: sampling locations: 01- back porch stairs  
02- back patio  
03- gate  
04- side door  
05- front porch

(b) (4)

1330 Sample management  
1335 GPS locations + Survey 123  
1345 Call (b) (4), leave property  
1400 meet with (b) (4) @ 62 martin Ln.  
1420 (b) (4) off site; (b) (4) stay to finish utilities

(b) (4)

0745 (b) (4) + (b) (4)  
onsite

0750 Tailgate meeting  
0805 Arrive @ (b) (6) (149)  
0807 No answer, left pamphlet in mailbox

0810 Flag sampling locations  
0815 Sample NLR-SS-149 @ 01 of comp  
0820 Sample NLR-CS-149 01- back gate

02- BBQ  
03- BIKE  
04- garden vines  
05- front porch

(b) (4)

NLR-SS-149 moist, clay silt, brown

0825 Sample management  
0835 GPS locations + Survey 123  
0837 Leave property

0840 Arrive @ (b) (6) (150)  
0842 No answer, left pamphlet in mailbox  
0845 Flag sampling locations

0850 Sample NLR-SS-150 @ 01 of comp  
0855 Sample NLR-CS-150 01- side seating

02- back deck  
03- pathway/seating on side  
04- front yard seating  
05- front pathway

(b) (4)

(b) (4)

Sample NLR-SS-150 moist, brown, clay silt

0900 Sample management

0905 GPS locations + Survey 123

0910 leave property

0915 arrive at (b) (6) (155)

0917 No answer, left pamphlet in mailbox

0920 Sample NLR-SS-155 @ 01 of comp

0925 <sup>155</sup> moist, brown, clay silt

0925 Sample NLR-CS-155 01 - back deck

02 - patio

03 - shed

04 - side door

05 - mailbox

0930 Sample management

0935 GPS locations + Survey 123

0940 leave property

0945 arrive at (b) (6) (154)

resident answered door, took pamphlet

0950 Sample NLR-SS-154 @ 02 of comp

0955 Sample NLR-CS-154 01 - patio stairs

SS: sandy silt w/ gravel 02 - patio

dark brown, moist 03 - shed

04 - end of driveway

05 - front yard (driveway)

1000 Sample management (b) (4) 11/16/2020

1005 gps locations + Survey 123

1010 leave property

1015 arrive at (b) (6) (151)

1020 resident is home; asked to keep dog inside

1025 Sample NLR-SS-151 @ 1 of comp

1030 <sup>151</sup> wet, <sup>dark</sup> brown, sandy clay

1030 Sample NLR-CS-151 01 - back deck

02 - garden by deck

03 - fence

04 - entrance to backyard

05 - front steps

1040 Sample management

1045 gps locations + Survey 123

1050 leave property; bathroom break

1105 arrive at (b) (6) (116)

resident signed access agreement form

1115 Sample NLR-SS-116 @ 1 of comp

wet, medium brown, silty clay

1120 Sample NLR-CS-116 01 - back patio

02 - shed

03 - gate

04 - side steps

05 - front steps

1125 <sup>116</sup> sample management (b) (4) 11/16/2020

1130 GPS locations + Survey 123 <sup>116</sup>

1135 leave property

1145 arrive at (b) (6) (152)

resident home, showed us around his yard; locate sampling areas

1155 Sample NLR-SS-152 @ 01 of comp  
WET, muddy, med brown, clay

1200 Sample NLR-CS-152 01- swing set

02- shed

03- swinging chair

04- side door

05- front door

1210 gps locations + survey 123

1220 leave property; arrive at

(b) (6) (153)

1222 No answer, leave pamphlet in mailbox

1225 Flag sample locations

1230 Sample NLR-SS-153 @ 01 of comp

wet, brown, silty clay w/ gravel

1235 Sample NLR-CS-153 (MS/MSD)

01- back yard entrance, right by water discharge pipe

02- garden

03- back side door

04- front side door

05- mailbox

(b) (4) 11/16/2020

1245 Sample management

1255 GPS locations + Survey 123

1310 Arrive at (b) (6)

R.M. talked on phone w/ E. Watt about sampling this week

1320 no one at residence; signed access agreement electronically per

(b) (4)

1330 Sample NLR-SS-168 @ 1 of comp  
Moist, med brown, clay silt w/ gravel

1332 Sample NLR-SS-168-01 @ 0800

1335 Sample NLR-CS-168 01- front door

02- front porch

03- mini shed

04- front porch

05- front door

1340 Sample NLR-CS-168-01 @ 0805

1355 gps locations + survey 123

1405 leave property

1415 Arrive at (b) (6) (159)

1417 Talk to resident, though it would be a different day, was ok w/ it

1420 Flag sampling locations  
resident asked about topsoil - All good

Rite in the Rain

1425 Sample NLR-SS-159 @ 01 of comp moist, dark brown, clay silt

1430 Sample NLR-CS-159 01-back patio  
02-swing set  
03-sec-saw  
04-gate  
05-front porch

(b) (4)

1435 Sample management

1440 GPS locations + Survey 123

1450 (b) (4) offsite to office to ship samples

11/16/2020

(b) (4)

0725 (b) (4)

(b) (4) onsite

0745 Joe (EPA OSC) onsite, tailgate meeting

0800 Arrive @ (b) (6) (100)

0802 No answer, left pamphlet in mailbox

0805 Flag sampling locations

\* All soil boring log details in soil boring log sheets for all hand auger 2-4' samples

0810 Sample NLR-SS-100 @ 01 of comp wet, brown, clay silt, plant bulbs

0815 Sample NLR-CS-100 01-backyard

02-garden fence

03-back patio

04-shed/driveway

05-front porch

(b) (4)

0820 Sample NLR-SB-100 @ 01 of comp

0830 Sample management

0840 GPS locations + Survey 123 + decon

0900 Leave property

0905 Arrive @ (b) (6) (107)

No answer, left pamphlet in between car

0915 Flag sampling locations. Joe mentioned not to sample near fire pit or to far downhill.

(b) (4)

11/17/2020

Ret in the Rain

46 11/17/2020

NORWOOD RESIDENTIAL

2 of 4

0920 Sample NLR-SS-102 @ 02 of comp  
dry-moist, brown, ML

0925 Sample NLR-CS-107 01 - backyard  
02 - left of back yard  
03 - garden bed  
04 - entrance to backyard  
05 - front steps

(b) (4)

0930 Sample NLR-SB-107 @ 02 of comp  
0940 Sample management; RM 15  
Surface sampling (02) for a video  
for EPA Norwood website.

0950 GPS locations + Survey 123 + decon

0955 leave property

1000 Arrive @ (b) (6) (108)

1005 Talk to resident

1007 Flag sample locations

1010 Sample NLR-SS-108 @ 01 of comp  
slight moist ML, ~~dry ML + 4 n en~~  
brown

1015 Sample NLR-CS-108 01 - backyard  
02 - shed  
03 - back patio  
04 - ramp  
05 - front porch

(b) (4)

1020 Sample NLR-SB-108 @ 01 of comp  
11/17/2020

(b) (4)

11/17/2020

NORWOOD RESIDENTIAL

3 of 4

1030 Sample management

1040 GPS locations + Survey 123 + decon  
EPA OSC give pamphlet to resident

1050 Leave property

1055 Arrive @ (b) (6) (111)

1100 Talk to resident about pipes

1102 Flag sampling locations

1105 Sample NLR-SS-111 @ 01 of comp  
slight moisture, brown, ML

1110 Sample NLR-CS-111 01 - backyard  
02 - shed  
03 - corner of back patio  
04 - downhill from gate away from driveway  
05 - front porch

(b) (4)

1115 Sample NLR-SB-111 @ 01 of comp

1125 Sample management

1130 GPS locations + Survey 123 + decon

1140 Leave property

1142 Arrive @ (b) (6) (112)

talk to resident about sampling

1145 Sample NLR-SS-112 @ 01 of comp

Slight moisture, med brown

1150 Sample NLR-CS-112 01 - backyard

02 - back door

03 - back gate end of yard

04 - downhill from sidewalk  
05 - front porch

(b) (4)

11/17/2020

- 1155 Sample NLR-SB-112 @ 01 of camp
  - 1200 Sample management
  - 1210 gps locations and survey 123+decon
  - 1215 leave property
  - 1220 Arrive @ (b) (6) (117)
  - 1222 Talk to resident + give pamphlet
  - 1225 Flag sampling locations
  - 1230 Sample NLR-SS-117 @ 01 of camp  
slight moisture, ML <sup>Brown</sup> (1200) DUP + MS/MSD
  - 1235 Sample NLR-CS-117 (DUP @ 1205) MS/MSD  
01- backyard  
02- shed  
03- corner of <sup>back</sup> patio  
04- patio walkway  
05- front porch
  - 1240 Sample NLR-SB-117 @ 01 of camp  
(DUP @ 1240) + MS/MSD
  - 1250 Sample management
  - 1300 GPS locations + survey 123 + decon
  - 1310 leave property
  - 1312 Arrive @ (b) (6) (118)
  - 1315 Bathroom break
  - 1335 Back @ (b) (6) (118)
  - 1332 No answer, left pamphlet in mailbox
  - 1335 Flag sample locations
- (b) (4) 11/17/2020 continued in logbook #3

Media: "I am responsible for conducting the work this site, but as a contractor to EPA, our process requires that you contact the EPA Press Officer, David Sternberg at 215-814-5548, with any site-related questions."

Community: "I am responsible for conducting the work this site, but as a contractor to EPA, our process requires that you contact the EPA Community Involvement Coordinator, Gina Socia at 215-814-5538, with any site-related questions."

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*Rite in the Rain.*  
ALL-WEATHER  
**FIELD**  
Nº 351FX

Norwood Landfill

Logbook # 2

Started: 09/28/2020





Monday 9/28/2020 Norwood 1 of 1

0915 Arrive at NL-~~2020~~<sup>Rm</sup>2020-40  
0930 Start sampling NL-~~2020~~<sup>Rm</sup>2020-SS-40  
1000 Start Sampling NL-2020-SB-40  
1020 Arrive at NL-2020-41  
1030 Start Sampling NL-2020-SS-41  
1100 Start sampling NL-2020-SB-41  
1130 Water break  
1200 Arrive at NL-2020-42  
Start soil Boring  
1215 start sampling 0-6"  
1300 start sampling 24"-36"  
DUP included in sample  
1330 DUP sample taken  
1420 Break  
1440 Arrive at NL-2020-SW/SD18  
1500 Start sampling NL-2020-SW18  
1600 Start sampling NL-2020-SD18  
1630 Leave site

(b) (4) 9/29/2020

Tuesday 9/29/2020 Norwood 1 of 1

0915 Arrive at NL-2020-44  
0930 Start boring NL-2020-SS-44  
0940 Homogenize NL-2020-SS-44  
0945 Start Sampling NL-2020-SS-44  
0950 Bore 6" - 36"  
1000 Homogenize NL-2020-SB-44  
1010 Start sampling NL-2020-SB-44  
1030 Arrive at NL-2020-43 <sup>with MS/MSD</sup>  
1035 Start boring NL-2020-SS-43  
1040 Homogenize NL-2020-SS-43  
1045 Start sampling NL-2020-SS-43  
1050 Bore 36" -  
1055 Homogenize NL-2020-SB-43  
1100 Sample NL-2020-SB-43  
1145 QC sample + decon  
1215 Break  
1245 Recon Delcore access  
1315 Head to SD-21, 22, 23  
1430 Arrive at NL-2020-SD23  
1435 Start clearing for sampling  
1440 Start sample NL-2020-SD23  
1500 Start sample NL-2020-SD22\*  
1540 Leave site NL-2020-SD parking area  
1600 Leave site  
\* NL-2020-SD22 in GPS as SD-23-change  
NL-2020-SD23 in GPS as SD-23-2020  
Rite in the Rain

4 Wednesday 09/30/2020 Norwood Lot 2

0805 arrive at NL-2020-GW04

0833 initial depth to water 19.60 ft

0850 started pumping  
ms

1030 final depth to water 14.61 ft

1030 stopped pumping because min. volume  
purged reached, stabilization achieved  
turbidity less than 10. well not dry.

1045 left NL-2020-GW04

1145 arrive at NL-2020-GW01

1148 initial depth to water 12.53 ft

1155 started pumping

1240 stopped pumping - stab development complete.  
final depth to water 12.85

well not dry.

1245 left NL-2020-GW01

1305 arrive at NL-2020-GW03

1313 initial depth to water 4.25 ft

1318 well is dry - well dry

1321 restart + measure

1323 dry

1328 restart + measure

1331 dry

1337 restart + measure

1338 dry - development complete.

1341 final depth to water 5.40 ft

NORWOOD 2 of 2

5

1400 left NL-2020-GW03

1405 arrived at NL-2020-GW05

1405 well is dry - NO measurements

~~1405~~ 1410 left NL-2020-GW05

1415 arrived at NL-2020-GW06

1417 initial depth to water 9.13 ft

1420 started pumping

1441 stopped pumping, development complete

1445 final depth to water 10.38 ft

1450 left NL-2020-GW06

1505 arrive at NL-2020-GW02

1525 well is dry, NO measurements.

1530 left NL-2020-GW02

1530-1630 Recon for SW + SD sampling  
access points.

(b) (4)

09/30/2020

6/1/20 Norwood 1 of 1

NL-2020-SW/SD17

Water

NL-2020-SD17

2020-SD20

iment

JL-2020-SD16/SW16

iment

urface water

JL-2020-SD19

ment

-2020-GW04

g.

water including MS/MSD

assigned drum.

2020-GW03

well recharge

water

in assigned drum

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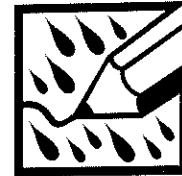
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**FIELD**

Nº 351FX

Norwood Landfill

Logbook #3  
Started 11/17/2020



1

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2

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Phone 302-738-7551

3

Project Norwood Landfill  
# 103X903403004

4

PM: **(b) (4)**

5

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Signature Page

| Name           | Signature | Initial | Date       |
|----------------|-----------|---------|------------|
| <b>(b) (4)</b> |           |         | 11/17/2020 |
| <b>(b) (4)</b> |           |         | 11/18/2020 |

\* Continuation from logbook #1

**1345** Sample NLR-SS-118 @ 07 of camp  
slight moisture, brown, ML

**1350** Sample NLR-CS-118 01-backyard  
02-canoe  
03-garden  
04-shed  
05-front porch

**(b) (4)**

**1355** Sample NLR-SB-118 @ 01 of camp  
dark wood oddity, pic taken

**1405** Sample management (photo taken of SB-118)  
**1415** gps locations + survey 123 -  
decon Some debris found  
in soil.

1420 Leave property

1422 Arrive @ **(b) (6)** **(123)**

1425 No answer, pamphlet in mailbox

1427 Flag sample locations

**1430** Sample NLR-SS-123 @ 01 of camp  
moist, light brown, ML

**1435** Sample NLR-CS-123 01-backyard  
02-back gate  
03-back porch  
04-down hill path  
05-front porch

**(b) (4)**

**(b) (4)**

4 11/17/2020

NORWOOD RESIDENTIAL

2 of 2

- 1440 Sample NLR-SB-123 @ 01 of comp
- 1445 Sample management
- 1450 GPS locations + Survey 123 + decon
- 1455 leave property, go to fields
- Joe offsite
- 1505 (b) (4) offsite to office to pack coolers

(b) (4)

11/18/2020

37°F

NORWOOD RESIDENTIAL

1 of 15

- 0730 (b) (4) onsite, drills + (b) (4) onsite
- 0735 (b) (4) + Joe (EPAOSC) onsite
- 0740 Tailgate meeting
- 0800 Load EW truck
- 0815 Arrive @ (b) (6) (125)
- \* All soil details are in soil boring logs for all samples
- 0817 No answer, sheet left in mailbox
- 0820 <sup>run</sup> Flag sample locations
- 0825 Sample NLR-SS-125 @ 01 of comp moist, tight brown, ML
- 0830 Sample NLR-CS-125 01 - backyard
  - 02 - playset
  - 03 - trampoline
  - 04 - back deck
  - 05 - front porch
- 0835 Sample NLR-SB-125 @ 01 of comp
- 0845 Sample management
- 0850 GPS locations + Survey 123 + decon
- 0900 leave property
- 0910 Arrive @ (b) (6) (128)
- 0912 Resident acknowledged pamphlet in mailbox
- 0915 Flag sample locations

(b) (4)

11/18/2020 the Rain



0920 Sample NLR-SS-128 @ 01 of comp  
dry, brown, ML

0925 Sample NLR-CS-128 01 - backyard

02 - play set

(b) (4) 03 - trampoline

04 - back patio

05 - front porch

0930 Sample NLR-SB-128 @ 01 of comp  
Picture taken, glass, ash + debris  
found in sample

0940 Sample management

0945 GPS locations - decon

0955 leave property

1000 Arrive @ (b) (6) (130)

no answer at door; drums located in backyard (pictures)

1005 Flag sampling locations

1010 Sample NLR-SS-130 @ 01 of comp

dry, med brown, ML

1015 Sample NLR-CS-130 01 - backyard

02 - swing set

(b) (4) 03 - behind shed

04 - pathway

05 - front yard

1020 Sample NLR-SB-130 @ 01 of comp

1025 Sample management

(b) (4)

11/18/2020

1030 GPS locations + decon

1032 leave property

1035 Arrive @ (b) (6) (131)

1037 No answer, pamphlet in mailbox

1040 Flag sample locations

1041 Resident came out to acknowledge

1045 Sample NLR-SS-131 @ 01 of comp  
dry, light + dark brown, ML

1050 Sample NLR-CS-131 01 - backyard

02 - past back <sup>mid</sup> fence

03 - back patio

(b) (4) 04 - garden

05 - front yard

1055 Sample NLR-SB-131 @ 01 of comp

1100<sup>pm</sup> Sample management

1105 GPS locations - decon

1115 leave property

1120 Arrive @ (b) (6) (132)

1122 No answer, sheet in mailbox

1125 Flag sampling locations

1130 Sample NLR-SS-132 @ 01 of comp

dry, brown, ML

1135 Sample NLR-CS-132 01 - front yard

\*front yard due to dog complication  
during utility clearing.

(b) (4)

11/19/2020

- NLR-CS-132 02 - garden <sup>back</sup>
- 03 - back deck
- (b) (4) 04 - shed
- 05 - trampoline

- 1140 Sample NLR-SB-132 @ 01 of comp
- 1145 Sample management
- 1150 ~~GPS~~ GPS locations + decon
- 1155 leave property
- 1157 Arrive @ (b) (6) (133)
- 1200 Talk to resident, give pamphlet  
wants to move off of old pool area ✓

- 1202 Flag sample locations
- 1205 Sample NLR-SS-133 @ 01 of comp  
dry, brown, ML
- 1210 Sample NLR-CS-133 01 - backyard off  
of old pool area

- 02 - near shed
- 03 - back patio
- 04 - stairs side door
- 05 - front patio

(b) (4)

- 1215 Sample NLR-SB-133 @ 01 of comp
- 1225 Sample management
- 1230 GPS locations / decon
- 1235 leave property
- 1236 Break

(b) (4)

11/18/2020

- 1250 Arrive @ (b) (6) (137)
- 1252 Talk to resident give pamphlet
- 1255 Flag sample locations
- 1300 Sample NLR-SS-137 @ comp 01  
Med brown, moist silty clay
- 1305 Sample NLR-CS-137 01 - backyard
- 02 - shed
- 03 - backyard
- 04 - near tree behind 15' front yard
- 05 - front yard

(b) (4)

- 1310 Sample NLR-SB-137 @ comp 01
- 1320 Sample management
- 1325 GPS locations / decon area (135)
- 1330 leave property; arrive at 614 E. Winona Av
- 1332 Talk to resident
- 1335 Sample NLR-SB-138 in backyard
- 1345 Sample management
- 1350 GPS locations / decon
- 1355 leave property Arrive @ (b) (6) (139)

- 1357 Talk to resident give pamphlet  
move flag #1 comp to puddle area
- 1400 Flag sample locations
- 1405 Sample NLR-SS-139 @ comp 07  
Med brown moist, silty clay

(b) (4)

11/18/2020 Ritt in the Rain

1410 Sample NLR-CS-139 01 - behind shed  
02 - middle of backyard  
03 - back patio  
04 - back patio  
05 - front steps  
(b) (4)

1415 Sample NLR-SB-139 @ Comp 01

1425 Sample management

1435 gps locations / decon

1440 leave property, arrive @ (b) (6)

(b) (6) (141)

1442 Talk to res. + give pamphlet

1445 Flag sample locations

1450 Sample NLR-SS-141 @ 01 of Comp  
dry, brown, ML (DUP @ 1430) ms/msd

1455 Sample NLR-CS-141 01 - side yard  
(DUP @ 1435) ms/msd 02 - baseball net  
03 - end of backyard  
04 - back patio  
05 - front side gate  
(b) (4)

1500 Sample NLR-SB-141 @ 01 of Comp  
(DUP @ 1440) ms/msd

1515 Sample management

1525 GPS locations - decon

1535 leave property

1545 Talk to (b) (4)

(b) (4) 11/19/2020

1550 Drop off (b) (4) at car

1555 (b) (4) offsite

(b) (4) onsite w/ drillers - Joe

11/19/2020

(b) (4)

0730 (b) (4)  
(b) (4) drillers, margot  
(b) (4) + Joe (EPAOSC) onsite

0740 Tailgate meeting

0755 Arrive @ (b) (6) (157)

0757 Talk to resident, give sheet

0800 Flag sample locations

0805 Sample NLR-SS-157 @ 01 of comp  
dry, brown, ML

0810 Sample NLR-CS-157 01-backyard  
02 play area  
03 - ramp <sup>patio</sup>  
(b) (4) 04 - trampoline/gate  
05 - front patio

0815 Sample NLR-SB-157 @ 01 of comp

0830 Sample management

0845 GPS locations + decon

0850 Leave property

0855 Arrive @ (b) (6) (166)

0857 talk to resident; flag out  
sample locations

0900 Sample NLR-166-SS @ comp 02  
Mld brown, slightly moist silt

0905 Sample NLR-166-CS 01-backyard  
02-shed  
(b) (4) 11/19/2020 03-back  
silt

(b) (4) 04 - garden area  
05 - front steps

0910 Sample NLR-SB-166 @ comp 0

0920 Sample management

0940 GPS locations + decon

0945 Leave property

0950 (b) (6) (165) Arrive

0952 No answer, leave pamphlet in mail

0955 Flag sample locations

1000 Sample NLR-SS-165 @ 01 of comp

1005 Sample NLR-CS-165 01-  
02-  
(b) (4) 03-  
04- (b) (4)  
05-

\* Cancel sampling - back gate  
locked - no one is answering door  
leave property, will try later

1010 Arrive @ (b) (6) Ave (164)

1012 Talk to res. give sheet

1015 Flag sample locations

1020 Sample NLR-SS-164 @ 01 of comp  
dry, brown, ML

(b) (4) 11/19/2020  
Rite in the Rain

**1025** Sample NLR-CS-164 01-treeswing  
 02-shed  
 03-slide  
 04-swing  
 05-front patio  
 (b) (4)

1030 Sample management / GPS locations

1035 Leave site

1040 Arrive @ (b) (6) (161) —

1042 at home; took pamphlet —

**1045** Sample NLR-SS-161 @ 01-camp  
 Med brown, slightly moist silt

**1050** Sample NLR-CS-161 01-Backgate  
 02-near trees  
 03-side of house  
 04-front steps  
 05-front side of house  
 (b) (4)

1100 Sample management

1110 gps locations + pictures  
 leave property

arrive at (b) (6) (162)

1112 No answer, leave sheet in mailbox

flag sample locations

**1115** Sample NLR-SS-162 @ 01 of camp  
 moist, brown / light brown & pool layer?  
 sandy silt  
 (b) (4) 11/19/2020

**1120** Sample NLR-CS-162 01-behind deck  
 02-backyard  
 03-side fence  
 04-back patio  
 05-front porch  
 (b) (4)

1125 Sample management

1130 GPS locations, meet w/ Joe

1135 Leave site

1140 Arrive @ (b) (6) (160)

1142 no answer, left pamphlet in mailbox

1145 flag sample locations

**1150** Sample NLR-SS-160 @ camp 01  
 Med brown, silt, slight moisture

**1155** Sample NLR-CS-160 01-back door  
 02-toys in backyard  
 03-swing set  
 04-back gate  
 05-front steps  
 (b) (4)

1200 sample management

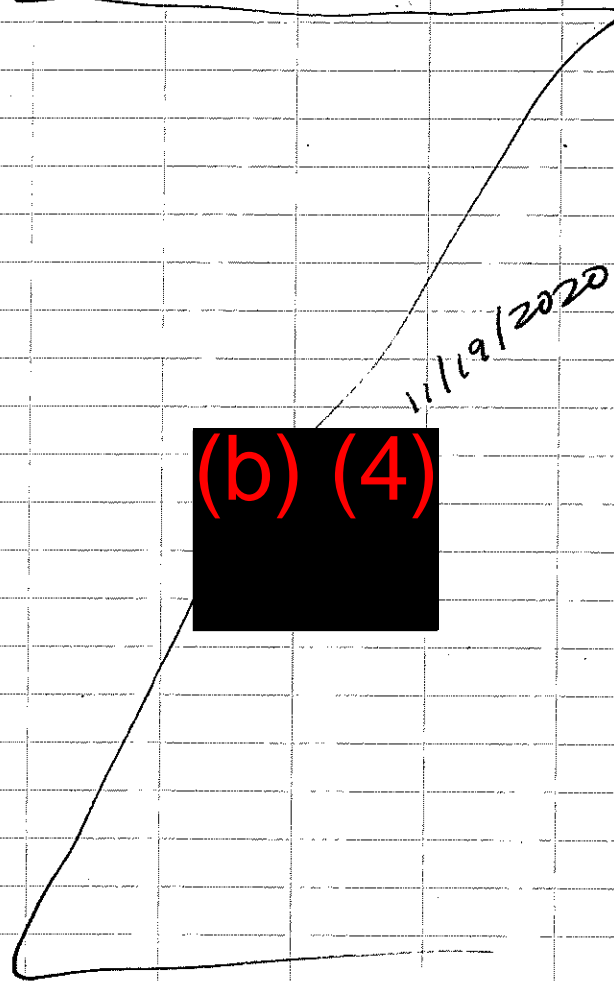
1210 gps locations / pictures

1215 leave site

1220 meet w/ (b) (4) take samples  
 (b) (4) 11/19/2020 *Rite in the Rain*

1235 (b) (4) remain  
w/ drillers until drilling is  
complete.

\* All SB soil details are in boring  
log sheets.



37°F Partly cloudy

0745 (b) (4)

(b) (4) (RM) onsite

0755 Tailgate meeting

0800 Arrive @ (b) (6) (103)

0802 Talk to res. give pamphlet

0805 Flag sample locations

0810 Sample NLR-SS-103 @ 01 of comp  
moist, med. brown, ML

0815 Sample NLR-CS-103 01-front yard  
02-side yard  
03-back patio  
04-bench  
05-back yard

0825 Sample management

0835 GPS locations + decan

0840 Leave property

0850 Arrive @ (b) (6) (110)

0852 Talk to res. give pamphlet

0855 Flag sample locations

0900 Sample NLR-SS-110 @ 01 of comp  
moist, brown, ML

0905 Sample NLR-CS-110 01-front walkway  
02-front garden  
03-back patio

(b) (4) 12/21/2020 Rite in the Rain

CS-110 04 - mid backyard  
05 - back backyard

0910 Sample management

0912 GPS locations + decor

0915 Leave property

0920 Arrive @ (b) (6) (115)

0922 No answer. Slip in mail box

0925 Flag sample locations

0930 Sample NLR-SS-115 @ 01 of comp  
moist, brown, ML

0935 Sample NLR-CS-115 01 - front yard

02 - front patio

03 - back garden

04 - back yard

05 - back backyard

(b) (4)

0940 Sample management

0945 GPS locations + decor

0947 Leave property

0950 Arrive @ (b) (6) (119)

0952 Talk to res. give pamphlet

0955 Flag sample locations

1000 Sample NLR-SS-119 @ 01 of comp  
slightly moist, medium brown, ML

1005 Sample NLR-CS-119 01 - front yard  
02 - front walkway

(b) (4)

12/2/2020

CS-119 03 - back patio

(b) (4)

04 - back yard

05 - back yard weed pile

1010 Sample management

1012 GPS locations + decor

1015 leave property

1020 Arrive @ (b) (6) (121)

1022 Talk to res. give pamphlet

1025 Flag sample locations

1030 Sample NLR-SS-121 @ 01 of comp  
moist, brown, ML

1035 Sample NLR-CS-121 01 - front yard

02 - front patio

03 - back patio

04 - hammock / play area

05 - back gate

(b) (4)

1040 Sample management

1045 GPS locations + decor

1050 leave property

1052 Arrive @ (b) (6) (126)

1055 Talk to res. give pamphlet

1057 Flag sample locations

1100 Sample NLR-SS-126 @ 01 of comp  
moist, brown, ML

1105 Sample NLR-CS-126

(b) (4)

12/2/2020

- CS 126 01 - front yard
- 02 - front patio
- 03 - backside door
- 04 - back yard - mid
- 05 - back yard - back

(b) (4)

- 1110 Sample management
- 1115 GPS locations + decon
- 1117 Leave property
- 1120 Arrive @ (b) (6) (129)

1122 moist, brown, ML w/ rocks

- 1125 Flag sample locations
- 1130 Sample NLR-SS-129 @ 01 of comp
- Talk to resident, give sheet

- 1135 Sample NLR-CS-129 01 - front yard
- 02 - front garden
- 03 - back garden
- 04 - backyard
- 05 - wood pile

(b) (4)

- 1140 Sample management
- 1145 GPS locations + decon
- 1150 Leave property
- 1152 Arrive @ (b) (6) (147)
- 1155 Talk to res. give pamphlet
- 1157 Flag sample locations

- 1200 Sample NLR-SS-147 @ 01 of comp
- moist, light brown, ML

12/2/2020 (b) (4)

- 1205 Sample NLR-CS-147 01 - front yard
- 02 - front porch
- 03 - garden by shed
- 04 - backyard
- 05 - backyard garden

(b) (4)

- 1210 Sample management
- 1220 GPS locations + decon
- 1230 Leave property
- 1235 Arrive @ (b) (6) (170)

- 1237 Talk to res. give slip
- 1240 Flag sample locations
- 1245 Sample NLR-SS-170 @ 01 of comp
- slightly moist, brown, ML

- 1250 Sample NLR-CS-170 01 -
- 04 03 02 -
- 01 03 - Five dice in front yard
- 05 02 04 -
- 05 -

Resident cannot work back gate lock.

- 1255 Sample management
- 1257 GPS locations + decon
- 1300 Leave property
- 1315 Arrive @ (b) (6) (158)
- 1320 Talk to res. give pamphlet
- 1325 Talk to <sup>res</sup> Flag sample locations

(b) (4)

12/2/2020 Retire in 20 hours



1330 Sample NLR-SS-158 @ 01 of comp  
moist, brown, ML w/ gravel

1335 Sample NLR-CS-158 01 - front yard  
02 - front yard <sup>by driveway</sup>  
03 - shed  
04 - garden (back)  
05 - swing set

(b) (4)

1340 Sample management

1350 GPS locations + decon

1355 Leave property

1400 Arrive @ (b) (6) (165)

1402 Talk to res. give pamphlet

1405 Flag sample locations

1410 Sample NLR-SS-165 @ 01 of comp  
slightly moist, light brown, ML

1415 Sample NLR-CS-165 01 - front yard  
02 - gate  
03 - shed  
04 - garden  
05 - back patio

(b) (4)

1425 Sample management

1435 GPS locations + decon

1437 Leave property

1440 Arrive @ (b) (6) (167)

1442 Talk to res. give pamphlet

(b) (4)

12/2/2020

1445 Flag sampling locations

~~1447~~

1450 Sample NLR-SS-167 @ 01 of comp  
moist, brown ML w/ glass

1455 Sample NLR-CS-167 01 - front yard  
02 - front porch  
03 - bench  
04 - backyard  
05 - shed

(b) (4)

1500 Sample management

1505 GPS locations + decon

1510 Leave property

1520 Arrive @ warehouse to empty decon  
buckets into drums

1530 (b) (4) offsite to office to  
pack coolers

12/2/2020

(b) (4)

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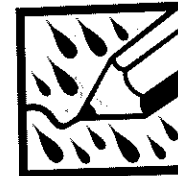
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**FIELD**  
No 351FX

Norwood Landfill

Logbook #4

Started 11/19/2020



Name Tetra Tech

Address 240 Continental Dr. Suite 200  
NEWARK DE 19713

Phone 302-738-7551

Project Norwood Landfill  
# 63X903403004

PM: **(b) (4)**

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Emergency 911  
Taylor Hospital  
175 E Chester Pike  
Ridley Park, PA  
610-595-6000



RiteintheRain.com

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Signature Page

| Name | Signature | Initial | Date |
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0834 R/s in position in front yard of 531 E. W. Lyons Ave. Confirmed with (b) (4) that no hazardous samples will be collected in the backyard of geoprobe.

-0860 Sample time NLR-SB-103 2'-4'

-0920 Sample time NLR-SB-103 8'-10'

Did not observe trash or debris in borings.

-1021 R/s in position in front of (b) (6)

-1035 Sample time NLR-SB-103 2'-4'

Some stone, broken wood near 2'.

-1055 Sample time NLR-SB-110 8'-10'

-1132 R/s in position in front yard of (b) (6)

-1145 Sample time NLR-SB-115 2'-4'

-1205 Sample time NLR-SB-115 8'-10'

Did not observe trash or debris in borings.

-1238 R/s in position at (b) (6) Ave front yard.

-1255 Sample time NLR-SB-119 2'-4'

-1310 Sample time NLR-SB-119 8'-10'

Did not observe trash or debris in borings.

Confirm in front of 533 E. W. Lyons Ave, CBS 3 Philadelphia News Station recorded

Ret. in the Rain

11-18-20 cont'd

- performs of soil sampling & borehole logging
- 1415 Sample time NLR-SB-121 2'-4'
- Collected duplicate, sample + mul 1400
- 1445 Sample time NLR-DB-121 8'-10'
- 1530 Sample time NLR-SB-R6 2'-4'
- 1540 Sample time NLR-DB-126 8'-10'
- Did not observe trash or debris in borehole,
- 1602 (b) (4) + ECDI off site,

(b) (4)

cont <

11-19-20

10 4 5

- 0806 Ris settings into position at (b) (6)
- (b) (6)
- 0825 Sample time NLR-SB-129 2'-4'
- 0845 Sample time NLR-DB-129. Did not observe trash or debris in boring. CO in borehole was 43ppm after drilling to 10'
- 0902 (b) (4) joins (b) (4)
- (b) (4) at conclusion of (b) (6)
- Sampling,
- 0925 Sample time NLR-SB-136 2'-4'
- 0940 Sample time NLR-DB-136 8'-10'
- Did not observe trash or debris in borehole
- 0930 Grab - NLR-SS-136 sample time
- soil moist, medium brown
- 0935 Comp - NLR-CS-136 sample time
- 1 - front yard
- (b) (4) 2 - back - by porch
- 3 - back - near shed
- 4 - back - near fence
- 5 - back - near back
- 1020 Sample time NLR-SB-143 2'-4'
- 1035 Sample time NLR-DB-143 8'-10'
- Collected duplicate at DB, time 0800
- Did not observe any trash + debris in borehole.

Rite in the Rain

-NLR-SS-148<sup>6.5w</sup> - (1025) sample time  
soil medium brown, sandy, moist.

-NLR-CS-148<sup>6.5w</sup> - (1030) sample time

comp locations 1-front yard  
2-back yard by deck  
3-back yard by house  
4-back yard, center  
5-back yard by old deck

(b) (4)

- (1140) Sample time NLR-SB-143 2'-4'

- (1155) Sample time NLR-DB-143 8'-10'

- (1145) Sample time NLR-SS-143

- (1150) Sample time NLR-CS-143

-NLR-SS-143 soil med. brown, sandy, moist

comp locations 1-front yard  
2-bk yard near shed  
3-bk yard near center  
4-bk yard near tree  
5-bk yard near deck

(b) (4)

- (1240) Sample time NLR-SB-147 2'-4'

- (1255) Sample time NLR-DB-147 8'-10'

Did not observe trash or debris in borehole

- (1345) Sample time NLR-SB-156 2'-4'

- (1400) Sample time NLR-DB-156 8'-10'

Did not observe trash or debris in borehole.

-NLR-SS-156 sampled at (1350)  
soil light brown, dry

-NLR-CS-156 sampled at (1350)  
comp. locations 1-front yard

2-side of house  
3-side of house  
4-bk yard by shed  
5-bk yard by bench

(b) (4)

- (1440) Sample time NLR-SB-163 2'-4'

- (1505) Sample time NLR-DB-163 8'-10'

- (1445) Sample time NLR-CS-163

- (1500) Sample time NLR-SS-163

- sample med brown, dry

comp locations 1-front yard  
2-back yard - front  
3-back yard - center  
4-back yard - back  
5-back yard - deck

(b) (4)

- (1600) arrived at (b) (6) area

Drillers not able to drill at location  
in the front of the house because of  
overhead power utilities.

- Concrete driveway entry too new to  
drive the drill rig over.

- instead, hand auger to 4 ft.

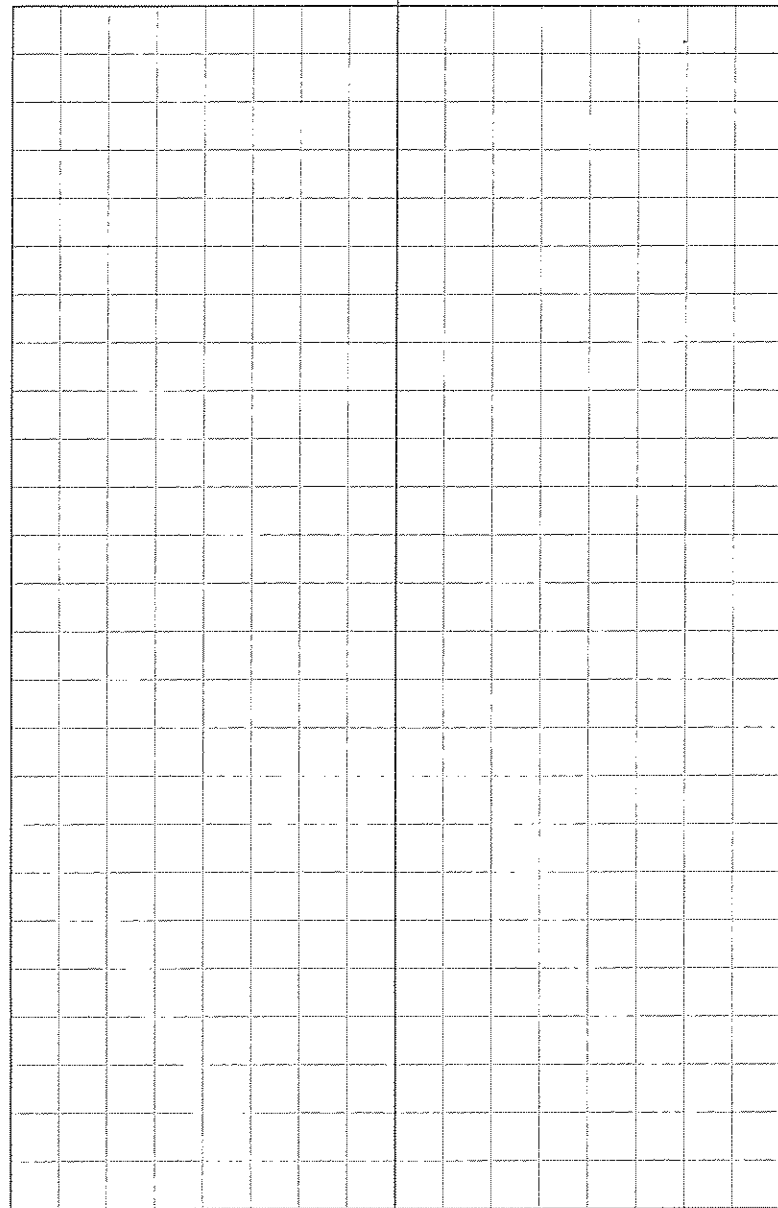
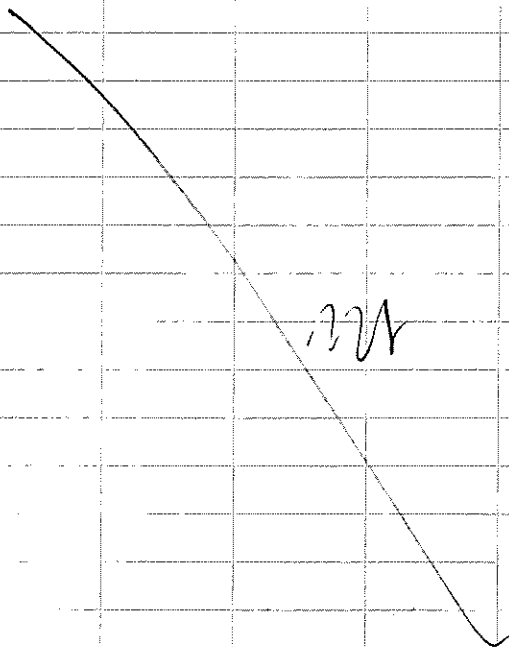
8 Thurs cont.

4 of 4

-NLR-SB-167 Sample Time (1645)

START left site (1700)

Drillers left site (1700)



Rite in the Rain

**APPENDIX B**  
**SOIL BORING LOGS**





**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Notwood Landfill  
 Project Number: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Logged by: (b) (4)  
 Date: 7/28/20

Boring ID SS-21

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |      | Description of Materials        | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|------|---------------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To   |                                 |                 |             |          |
| 0                   | 5  |                 | 0                   | 4.5  | Dark Brown Dry                  | 0-1             | 0.0         |          |
|                     |    |                 | 2                   | 4    | Dark Yellowish Brown moist clay |                 |             |          |
|                     |    |                 | 4                   | 8    | Dark Reddish                    |                 |             |          |
|                     |    |                 | 8                   | 12   | Reddish Brown moist             |                 |             |          |
|                     |    |                 | 12                  | 12.5 | Dark Reddish Brown Dry          |                 |             |          |
|                     |    |                 | 12.5                | 13   | Medium Dense Sand, Gravel       |                 |             |          |
|                     |    |                 | 13                  | 15   | Dark Reddish Brown Firm         |                 |             |          |
|                     |    |                 | 15                  | 16   | Reddish Brown Clay Firm         | 15-16           |             |          |
|                     |    |                 | 17                  | 18   | Grey Clay Firm                  |                 |             |          |
|                     |    |                 | 18                  | 20   | Dark Brown Clay Firm            |                 |             |          |

Depth to Water: 16  
 Drilling Firm: ECOT  
 Drilling Method: DPT  
 Total Depth: 20

Comments: \_\_\_\_\_  
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 \_\_\_\_\_  
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Page of \_\_\_\_\_



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Norwood Landfill  
Project Number: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: **(b) (4)**  
Date: 9/28/20

Boring ID SS/56-22

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials                   | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|--|-----------------|-------------|----------|
| From                | To |                 | From                | To  |  |                 |             |          |
|                     |    |                 | 0                   | 0.5 | Dark Brown                                 | 0-1             | 0.0         |          |
|                     |    |                 | 0.5                 | 1.5 | light Brown Clay <u>Low Sp<sup>1</sup></u> |                 |             |          |
|                     |    |                 | 1.5                 | 3   | Brown Clay Firm                            |                 |             |          |
|                     |    |                 | 3                   | 6   | Dark Gray, Clay                            |                 |             |          |
|                     |    |                 | 6                   | 7   | Dark Brownish Red Clay                     |                 |             |          |
|                     |    |                 | 7                   | 8.5 | Yellowish Brown Firm Clay                  |                 |             |          |
|                     |    |                 | 8.5                 | 10  | Yellowish Brown Fine Sands                 |                 |             |          |
|                     |    |                 | 10                  | 13  | Reddish Yellow Fine Sands                  | 12-13           | ✓           |          |
|                     |    |                 |                     |     | 13' Refusal                                |                 |             |          |
|                     |    |                 |                     |     |  |                 |             |          |
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Depth to Water: ND  
Drilling Firm: ECOT  
Drilling Method: DPT  
Total Depth: 13

Comments: \_\_\_\_\_  
\_\_\_\_\_

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**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Newport Landfill  
Project Number: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 9/30/2020

Boring ID SS/56/23

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |      | Description of Materials             | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|------|--------------------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To   |                                      |                 |             |          |
|                     |    |                 | 0                   | 0.5  | Dark Brown Clay organic conts firm   | 0-1             | 0.0         |          |
|                     |    |                 | 0.5                 | 8    | <del>Yellowish</del> Brown Clay Firm |                 | 0.0         |          |
|                     |    |                 | 8                   | 9    | Grey Medium stiff Clay Mass          |                 | 0.0         |          |
|                     |    |                 | 9                   | 10.1 | Brown fine sand soft                 |                 | ↓           |          |
|                     |    |                 | 11                  | 12   | Reddish Brown fine sand firm         |                 |             |          |
|                     |    |                 | 12                  | 13   | Brown coarse gravel firm             |                 |             |          |
|                     |    |                 | 13                  | 13.5 | Yellowish Brown coarse gravel        |                 |             |          |
|                     |    |                 | 13.5                | 17   | <del>Yellowish</del> Brown fine sand | 16-17           |             |          |
|                     |    |                 |                     |      | Return at 17'                        |                 |             |          |
|                     |    |                 |                     |      |                                      |                 |             |          |

Depth to Water: FEEL ND      Comments: \_\_\_\_\_

Drilling Firm: ECCI

Drilling Method: DPT

Total Depth: 17

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Tetra Tech EM Inc.  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Mormon2 Layfill  
Project Number: 1032903703007

Boring ID SS/SB-27

Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 1/9/2020

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |      | Description of Materials | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|------|--------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To   |                          |                 |             |          |
|                     |    |                 | 0                   | 3    | Greyish Brown Clay Firm  | 0-1             | 0.0         |          |
|                     |    |                 | 3                   | 6    |                          |                 |             |          |
|                     |    |                 | 6                   | 8    | Brown Clay Fine Sands    | 6-7             |             | M/S      |
|                     |    |                 | 8                   | 8.5  | G. m                     |                 |             | S        |
|                     |    |                 | 8.5                 | 10   | Brown Fine Sands Moist   |                 |             | S        |
|                     |    |                 | 10                  | 10.5 | Reddish Brown Fine Sand  |                 |             | S        |
|                     |    |                 | 10.5                | 11.5 | Reddish Brown Fine Sand  |                 |             | S        |
|                     |    |                 | 11.5                | 12   | G. m                     |                 |             | S        |
|                     |    |                 |                     |      | Refusal at 12'           |                 |             |          |

Depth to Water: 7  
Drilling Firm: ECOT  
Drilling Method: DPT  
Total Depth: 12

Comments: \_\_\_\_\_  
\_\_\_\_\_

Page 1 of 1



**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Norwood Landfill      Boring ID SS25  
 Project Number: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Logged by: (b) (4)  
 Date: 10/28/2022

| Sample Depth (feet)<br>From To | Recovery (feet) | Strata Depth (feet) |     | Description of Materials        | Sampled Segment | PID Reading | Moisture |
|--------------------------------|-----------------|---------------------|-----|---------------------------------|-----------------|-------------|----------|
|                                |                 | From                | To  |                                 |                 |             |          |
|                                |                 | 0                   | 1   | Asphalt/Concrete                | —               | 0.0         | D        |
|                                |                 | 2                   | 3.5 | Gray clay                       | <del>2-3</del>  | 0.0         | D        |
|                                |                 | 3.5                 | 5   | Yellowish Brown clay moist      | —               | 0.0         | M        |
|                                |                 | 5-6                 | 6   | Grayish Brown clay moist        | 5-6             | 0.0         | M        |
|                                |                 | 6                   | 7.5 | light Yellowish Brown fine Sand | —               | 0.0         | S        |
|                                |                 | 7.5                 | 8.5 | Grayish Brown fine Sand         | —               | 0.0         | S        |
|                                |                 | 8.5                 | 10  | Dark Grayish Brown fine Sand    | —               | 0.0         | S        |
|                                |                 |                     |     | Refusal at 10'                  |                 |             |          |
|                                |                 |                     |     |                                 |                 |             |          |
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Depth to Water: 6  
 Drilling Firm: ECOT  
 Drilling Method: DPT  
 Total Depth: 10

Comments:  
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 \_\_\_\_\_  
 Page of \_\_\_\_\_



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Northwood Landfill

Boring ID <sup>SS/SB</sup> -28

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: (b) (4)

Date: 9/30/2020

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials                 | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|--|-----------------|-------------|----------|
| From                | To |                 | From                | To  |  |                 |             |          |
|                     |    |                 | 0                   | 2.5 | Dark Brn Fin Clay organic root           | 0-1             | 0.0         |          |
|                     |    |                 | 2.5                 | 3   | Brown clay concrete pieces organic roots |                 |             |          |
|                     |    |                 | 3                   | 6   | Gray Clay Fin                            |                 |             |          |
|                     |    |                 | 6                   | 8   | Brown Fin Sands Fin                      |                 |             |          |
|                     |    |                 | 8                   | 9   | Gray Clay Fin                            |                 |             |          |
|                     |    |                 | 9                   | 15  | Dark Gray Fin Sands Fin                  | 15-16           |             |          |
|                     |    |                 |                     |     |  |                 |             |          |
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|------------------|-------------|--------------------------------------|
| Depth to Water:  | <u>ND</u>   | Comments:<br>_____<br>_____<br>_____ |
| Drilling Firm:   | <u>ECDI</u> |                                      |
| Drilling Method: | <u>DPT</u>  |                                      |
| Total Depth:     | <u>16</u>   |                                      |
|                  |             |                                      |
|                  |             | Page 1 of 1                          |



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Northwood Landfill  
Project Number: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 10/01/2020

SS/SB  
Boring ID -29

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials        | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|---------------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To  |                                 |                 |             |          |
|                     |    |                 | 0                   | 1   | Dark Brown (he. organic) loess  | 0-1             | 0.0         | D        |
|                     |    |                 | 1                   | 2.5 | Brown clay fine sand            |                 |             | D        |
|                     |    |                 | 2.5                 | 3   | Concrete pieces Gray clay firm  |                 |             | D        |
|                     |    |                 | 3                   | 5   | Dark brown clay firm            |                 |             | D        |
|                     |    |                 | 5                   | 7   | Green-yellowish brown clay firm |                 |             | M        |
|                     |    |                 | 7                   | 10  | Brown clay fine sand moist      | 8-9             | 0.0         | Wet      |
|                     |    |                 |                     |     | Water at 9                      |                 |             |          |
|                     |    |                 |                     |     |                                 |                 |             |          |
|                     |    |                 |                     |     |                                 |                 |             |          |
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|                     |    |                 |                     |     |                                 |                 |             |          |

Depth to Water: 9  
Drilling Firm: ECOI  
Drilling Method: DPT  
Total Depth: 10

Comments: \_\_\_\_\_



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Newark Landfill

Boring ID SS/SB-36

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: \_\_\_\_\_

Date: \_\_\_\_\_

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |      | Description of Materials                 | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|------|--|-----------------|-------------|----------|
| From                | To |                 | From                | To   |  |                 |             |          |
|                     |    |                 | 0                   | 1    | Dark Brown Clay organic Broken Glass     | 0-1             | 0.0         |          |
|                     |    |                 | 1                   | 2.5  | Yellow Brown Sand soft                   |                 |             |          |
|                     |    |                 | 2.5                 | 6.5  | Gray fine sand soft                      |                 |             |          |
|                     |    |                 | 6.5                 | 8.5  | Brownish Gray fine Sand                  |                 |             |          |
|                     |    |                 | 8.5                 | 9.0  | trash paper Dark Brown DRY               |                 |             |          |
|                     |    |                 | 9.0                 | 12   | Dark Brown clay Fin. Sand Broken Glasses |                 |             |          |
|                     |    |                 | 12                  | 14   | Dark Gray Clay Fin. DRY                  |                 |             |          |
|                     |    |                 | 14                  | 14.5 | white sand soft fine sand                |                 |             |          |
|                     |    |                 | 14.5                | 20   | Yellowish Brown Sand soft DRY            |                 |             |          |
|                     |    |                 | 19                  | 20   | Dark Brown Sand soft                     | 19-20           |             |          |
|                     |    |                 |                     |      | water at 20.                             |                 |             |          |

Depth to Water: 20

Drilling Firm: ECOI

Drilling Method: DPT

Total Depth: 20

Comments: \_\_\_\_\_

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**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Norwood Landfill  
Project Number: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 7/28/2020

Boring ID SS/SB-31

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials            | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|-------------------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To  |                                     |                 |             |          |
|                     |    |                 | 0                   | 0.5 | Dark brown, Topsoil organic roots   | 0-1             | 0.0         | 0        |
|                     |    |                 | 1                   | 2   | Yellowish Brown sand                |                 |             | 0        |
|                     |    |                 | 2                   | 2.5 | Gray fine sand                      |                 |             | 0        |
|                     |    |                 | 2.5                 | 5   | Yellowish brown sand                |                 |             | 0        |
|                     |    |                 | 5                   | 10  | Dark brown, organic                 |                 |             | 0        |
|                     |    |                 | 10                  | 11  | Light Gray Fine Sand                |                 |             | 90       |
|                     |    |                 | 11                  | 15  | Dark Brown                          | 14-15           | 4.5         | 2.5      |
|                     |    |                 | 15                  | 20  | Broken Glass, Fine Sand, Dark Brown |                 |             | 0        |

Depth to Water: 15  
Drilling Firm: ECOT  
Drilling: DPT  
Method: \_\_\_\_\_  
Total Depth: 20

Comments: \_\_\_\_\_  
Page of \_\_\_\_\_



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Norman? Landfill

Boring ID SS/SS  
-32

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: (b) (4)

Date: 10/01/2020

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials         | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|----------------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To  |                                  |                 |             |          |
|                     |    |                 | 0                   | 1   | Dark Brown Clay organic matter   | 0-1             |             |          |
|                     |    |                 | 1                   | 3.5 | Yellowish Brown fine sands       |                 |             |          |
|                     |    |                 | 3                   | 6.5 | light brown fine sands soft clay |                 |             |          |
|                     |    |                 | 6.5                 | 7.5 | Dark grey clay soft organic      | 7-8             |             |          |
|                     |    |                 | 8                   | 10  | Brown Clay fine sands            |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |
|                     |    |                 |                     |     |                                  |                 |             |          |

Depth to Water: \_\_\_\_\_

Comments: \_\_\_\_\_

Drilling Firm: \_\_\_\_\_

Drilling Method: \_\_\_\_\_

Total Depth: \_\_\_\_\_

Page of \_\_\_\_\_



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Newark Landfill  
Project Number: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 9/30/2020

Boring ID SS/SB-33

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|--------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To  |                          |                 |             |          |
|                     |    |                 | 0                   | 0.1 | Dark Brown Organic Refs  | 0-1             | 0.0         |          |
|                     |    |                 | 1.0                 | 2.5 | Brown fine sandy silt    |                 |             |          |
|                     |    |                 | 2.5                 | 7.5 | Yellow Brown Clay tom    |                 |             |          |
|                     |    |                 | 7.5                 | 10  | Gray Clay Firm           | 9-10            | ⊕-0         |          |
|                     |    |                 | 10                  | 11  | Brown Clay Moist         |                 |             |          |
|                     |    |                 | 12                  | 14  | silt Yellow              |                 |             |          |
|                     |    |                 |                     |     | Refusal at 14            |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |
|                     |    |                 |                     |     |                          |                 |             |          |

Depth to Water: 10.5  
Drilling Firm: KCD  
Drilling Method: OPT  
Total Depth: 14

Comments: \_\_\_\_\_

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**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Noirwood Landfill  
 Project Number: 103 X 103703007  
 Street Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Logged by: (b) (4)  
 Date: 1 9/29/20

Boring ID SS-34

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials     | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|------------------------------|-----------------|-------------|----------|
| From                | To |                 | From                | To  |                              |                 |             |          |
|                     |    |                 | 0                   | 2   | Dark Brown Clay              | 0-1             |             |          |
|                     |    |                 | 2                   | 3   | Yellowish Brown Muc          |                 |             |          |
|                     |    |                 | 3                   | 3.5 | Grey                         |                 |             |          |
|                     |    |                 | 3.5                 | 7   | Reddish Brown fine sand      | 6-7             |             | B/M      |
|                     |    |                 | 7                   | 8.5 | Grey clay fine sand          |                 |             | SW       |
|                     |    |                 | 8.5                 | 10  | Reddish Brown                |                 |             |          |
|                     |    |                 |                     |     | stopped due to water at 7.5' |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |
|                     |    |                 |                     |     |                              |                 |             |          |

Depth to Water: 7.5  
 Drilling Firm: ECDT  
 Drilling Method: DPT  
 Total Depth: 10

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Tetra Tech EM Inc.  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Norwood Landfill

Boring ID S-156-35

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: **(b) (4)**

Date: 12/30/2020

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials                    | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|---|-----------------|-------------|----------|
| From                | To |                 | From                | To  |   |                 |             |          |
|                     |    |                 | 0                   | 1   | Dark Brown soft, organic loam               | 0-1             | 0.0         |          |
|                     |    |                 | 1                   | 2.5 | <del>Dark</del> Brown clay, fine sand, soft |                 |             |          |
|                     |    |                 | 2.5                 | 5   | Gray clay, fine sand, firm                  |                 |             |          |
|                     |    |                 | 5                   | 5.5 | Yellowish Brown fine sand                   |                 |             |          |
|                     |    |                 | 5.5                 | 6   | Trash / Broken Glass                        |                 |             |          |
|                     |    |                 | 6                   | 8.5 | Dark Gray Clay Firm                         |                 |             |          |
|                     |    |                 | 8.5                 | 11  | Yellowish Gray fine sand                    | 10-11           | ✓           |          |
|                     |    |                 |                     |     | Refusal at 11                               |                 |             |          |

**(b) (4)**

Depth to Water: ND  
 Drilling Firm: ECDT  
 Drilling Method: DPT  
 Total Depth: 11

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Tetra Tech EM Inc.  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: MORWOOD

SS/SB  
Boring ID -36

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: (b) (4)

Date: 7/29/2020

36C

36B

36A

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials                   | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|--|-----------------|-------------|----------|
| From                | To |                 | From                | To  |  |                 |             |          |
|                     |    |                 | 0                   | 0.5 | Dark Brown, Organic                        |                 | 0.6         |          |
|                     |    |                 | 0.5                 | 1   | concrete/trash pieces of plastic           |                 |             |          |
|                     |    |                 | 1                   | 2   | Dark Reddish Brown Clay fine Sil           |                 |             |          |
|                     |    |                 | 2                   | 2.5 | Dark Brown, Fine Clay                      |                 |             |          |
|                     |    |                 | 2.5                 | 10  | Dark Gray, Clay, Firm                      |                 |             |          |
|                     |    |                 | 10                  | 14  | Yellowish Brown, Fine Sands                |                 |             |          |
|                     |    |                 |                     |     | Rebound                                    |                 |             |          |
|                     |    |                 | 0                   | 2.5 | Dark Brown organic, Trash/Concrete         | 0-1             | 0.0         |          |
|                     |    |                 | 2.5                 | 5   | Reddish Brown, organic, loess fine sand    |                 |             |          |
|                     |    |                 | 5                   | 7   | Dark Gray Clay, Firm, Moist, Trash/Plastic | 5-6             |             |          |
|                     |    |                 | 7.5                 | 10  | Yellow Dark Gray, alloy, Trash             |                 |             | 12%      |
|                     |    |                 | 10                  | 11  | Brown Clay Firm                            |                 |             |          |
|                     |    |                 | 11                  | 15  | Yellowish Brown, Fine Sands                |                 |             |          |
|                     |    |                 | 0                   | 0.5 | Dark Brown Clay Firm                       |                 | 0.0         |          |
|                     |    |                 | 0.5                 | 1.5 | Reddish Brown organic, loess, fine sand    |                 |             |          |
|                     |    |                 | 1.5                 | 3.5 |  |                 |             |          |
|                     |    |                 | 3.5                 | 4.5 | Yellowish Brown, Clay Firm Fine Sil        |                 |             |          |
|                     |    |                 | 4.5                 | 5   | Trash, Glass                               |                 |             |          |
|                     |    |                 | 5                   | 5.5 | Dark Reddish Clay Firm                     |                 |             |          |
|                     |    |                 | 5.5                 | 8.5 | Gray Clay moist Firm                       |                 |             |          |
|                     |    |                 | 8.5                 |     |  |                 |             |          |

Depth to Water: 7  
 Drilling Firm: ECOT  
 Drilling Method: DPF  
 Total Depth: 15

Comments: \_\_\_\_\_



Tetra Tech EM Inc.  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Normal Landfill

Boring ID 5/58-37 A,B,C

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: **(b) (4)**

Date: 9/28/2020

| Sample Depth (feet)<br>From To | Recovery (feet) | Strata Depth (feet) |     | Description of Materials                     | Sampled Segment | PID Reading | Moisture |
|--------------------------------|-----------------|---------------------|-----|--|-----------------|-------------|----------|
|                                |                 | From                | To  |  |                 |             |          |
| 37A                            |                 | 0                   | 3   | Brown Firm Clay                              | 0-1             | 0.0         | D        |
|                                |                 | 3                   | 5   | Yellowish Brown fine Sands                   |                 | 0.0         | D        |
|                                |                 | 5                   | 5.5 | Yellowish Brown coarse Gravel                |                 | 0.0         | D        |
|                                |                 | 5.5                 | 6.5 | Dark Reddish Brown fine Sands                |                 | 0.0         | D        |
|                                |                 | 6.5                 | 7   | Yellowish Brown fine Sands                   | 6-7             | 0.0         | D        |
|                                |                 |                     |     | Refusal at 7'                                |                 | 0.0         | D        |
| 37B                            |                 | 0                   | 0.5 | Asphalt                                      |                 | 0.0         | D        |
|                                |                 | 0.5                 | 3   | Dark Brown Clay                              |                 | 0.0         | D        |
|                                |                 | 3                   | 3.5 | Dark Brown Clay coarse Gravel                |                 | 0.0         | D        |
|                                |                 | 3.5                 | 5   | Dark Reddish Brown fine Sands                |                 | 0.0         | D        |
|                                |                 | 5                   | 5.5 | Dark Brown fine Sand?                        |                 | 0.0         | D        |
|                                |                 | 5.5                 | 6   | Dark Gray fine Sands                         |                 | 0.0         | D        |
|                                |                 | 6                   | 7   | Clay   |                 |             |          |
|                                |                 |                     |     | Refusal at 7'                                |                 |             |          |
| 37C                            |                 | 0                   | 1.5 | Dark Brown Clay                              |                 | 0.0         | D        |
|                                |                 | 1.5                 | 2   | Reddish Brown Clay fine Sands                |                 | 0.0         | D        |
|                                |                 |                     |     | Refusal at 3 locations<br>no pictures taken. |                 |             |          |
| <b>(b) (4)</b>                 |                 |                     |     |  |                 |             |          |

Depth to Water: ND

Drilling Firm: ECOT

Drilling Method: DPT

Total Depth: 7

Comments: \_\_\_\_\_

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Tetra Tech EM Inc.  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: Notwood  
Project Number: 105K 903403004  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 9/24/2020

Boring ID SS/BB-38

| Sample Depth (feet)<br>From To | Recovery (feet) | Strata Depth (feet) |                | Description of Materials               | Sampled Segment | PID Reading | Moisture |
|--------------------------------|-----------------|---------------------|----------------|--|-----------------|-------------|----------|
|                                |                 | From                | To             |  |                 |             |          |
| 38C                            |                 | 0                   | 0.5            | Dark Brown Organic Rnds                |                 | 0.0         |          |
|                                |                 | 0.5                 | 1.5            | Dark Brown Clay Fin Sands Firm         |                 | ↓           |          |
|                                |                 | 1.5                 | 5.5            | Dark Grey <del>Coarse</del> Sands Firm |                 |             |          |
|                                |                 | 5.5                 | 6.5            | Grey very firm tin Sands Clay          |                 |             |          |
|                                |                 | 6.5                 | 7.0            | Dark reddish Brown, Sand Firm          |                 |             |          |
|                                |                 | 7                   | 9              | Reddish Brown, fine sands soft         |                 |             |          |
|                                |                 |                     | Refusal at 9'  |  |                 |             |          |
| 38B                            |                 | 0                   | 0.5            | Dark Brown Organic Rnds                |                 | 0.0         |          |
|                                |                 | 0.5                 | 1.5            | asphalt/concrete                       |                 | ↓           |          |
|                                |                 | 1.5                 | 5.5            | Dark Grey clay Firm                    |                 |             |          |
|                                |                 | 5.5                 | 7.5            | Yellowish Brown                        |                 |             |          |
|                                |                 | 7.5                 | 10             | Reddish Brown soft                     |                 |             |          |
|                                |                 |                     | Refusal at 10' |  |                 |             |          |
| 38A                            |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |
|                                |                 |                     |                |  |                 |             |          |

|                  |               |           |
|------------------|---------------|-----------|
| Depth to Water:  |               | Comments: |
| Drilling Firm:   | <u>E C DI</u> |           |
| Drilling Method: | <u>DT</u>     |           |
| Total Depth:     | <u>10</u>     |           |
|                  |               |           |





Tetra Tech EM Inc.  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

### SOIL BORING LOG

Project Name: MORWOOD  
Project Number: 1034903403004  
Street Address: \_\_\_\_\_  
City/State: \_\_\_\_\_  
Logged by: (b) (4)  
Date: 9/24/2020

Boring ID SS/SS-39

39C

39B

| Sample Depth (feet) |    | Recovery (feet) | Strata Depth (feet) |     | Description of Materials                        | Sampled Segment | PID Reading | Moisture |
|---------------------|----|-----------------|---------------------|-----|---|-----------------|-------------|----------|
| From                | To |                 | From                | To  |   |                 |             |          |
|                     |    |                 | 0                   | 2   | Dark Brown Clay                                 | 0-1             | 0.0         |          |
|                     |    |                 | 2                   | 5   | Yellowish Brown Fine Sand                       |                 |             |          |
|                     |    |                 | 5                   | 8   | Dark Brown Clay Firm                            |                 |             |          |
|                     |    |                 | 8                   | 10  | Dark Gray Fine Clay                             |                 |             |          |
|                     |    |                 | 10                  | 11  | Gray Clay Firm Moist                            |                 |             |          |
|                     |    |                 | 11                  | 13  | Reddish Brown Clay, Fine Sands                  |                 |             |          |
|                     |    |                 | 13                  | 15  | Gray Clay Fine Sands                            | 13-14           |             |          |
|                     |    |                 | 0                   | 0.5 | Dark Gray Fine Sand Organic Lat.                |                 | 0.0         |          |
|                     |    |                 | 0.5                 | 2   | Brown Fine Sand Dry                             |                 |             |          |
|                     |    |                 | 2                   | 2.5 | Reddish Brown Cl                                |                 |             |          |
|                     |    |                 | 2.5                 | 4.5 | Dark Brown Clay Firm                            |                 |             |          |
|                     |    |                 | 4.5                 | 5   | Dirt  |                 |             |          |
|                     |    |                 | 5                   | 5.5 | Concrete  |                 |             |          |
|                     |    |                 | 5.5                 | 8.5 | Dark Gray Clay Firm                             |                 |             |          |
|                     |    |                 | 8.5                 | 11  | Dark Gray Trash/Glass/Plastics                  |                 |             |          |
|                     |    |                 | 11                  | 12  | Dark Gray Clay, Fine Sands                      |                 |             | SW       |
|                     |    |                 | 12                  | 15  | Yellowish Brown, Fine Sand silt<br>water at 13' |                 |             |          |
|                     |    |                 | 0                   | 1   | Dark Brown                                      |                 | 0.0         |          |
|                     |    |                 | 1                   | 2   | Yellowish Brown Fine Sand                       |                 |             |          |
|                     |    |                 | 2                   | 3.5 | Gray Clay Firm                                  |                 |             |          |
|                     |    |                 | 3.5                 | 6.5 | Brown Clay Firm                                 |                 |             |          |
|                     |    |                 | 6.5                 | 8.5 | Reddish Brown Clay Firm                         |                 |             |          |
|                     |    |                 | 8.5                 | 10  | Brown Clay Fine Sand Firm                       |                 |             |          |

Depth to Water: EEDE      Comments: 10-13 Yellowish brown clay fine sand 11-12

Drilling Firm: ECDF      13-15 D

Drilling: DPT      15-20 Ye

Method: \_\_\_\_\_

Total Depth: 15

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**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

## SOIL BORING LOG

Project Name: NORWOOD  
 Project Number: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Logged by: (b) (4)  
 Date: 9/23/2020

SS/SB  
 Boring ID 40

| Sample Depth (feet) |         | Recovery (feet) | Strata Depth (feet) |    | Description of Materials                                      | Sampled Segment | PID Reading | Moisture |
|---------------------|---------|-----------------|---------------------|----|---|-----------------|-------------|----------|
| From                | To      |                 | From                | To |   |                 |             |          |
| 0                   | 0.5     | 0.5             |                     |    | sandy silt, dark brown w/ gravel                              | SS-40           |             |          |
| 2                   | 3       | 1               |                     |    | gravel  | SB-40           | RM          |          |
| 0.5                 | 20"     |                 |                     |    | light brown sandy silt  |                 |             |          |
| 30"                 | refusal |                 |                     |    | silt w/ gravel, gray to brown<br>some organics, refusal @ 30" |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
|                     |         |                 |                     |    |   |                 |             |          |
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| Depth to Water: _____  | Comments:<br><br><br><br> |
| Drilling Firm: _____   |                           |
| Drilling Method: _____ |                           |
| Total Depth: _____     |                           |
|                        |                           |

Page \_\_\_\_\_ of \_\_\_\_\_



**Tetra Tech EM Inc.**  
240 Continental Drive, Suite 200  
Newark, Delaware 19713

**SOIL BORING LOG**

Project Name: NORWOOD

SS/SB  
Boring ID 41

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: **(b) (4)**

Date: 09/28/2020

| Sample Depth (feet) |     | Recovery (feet) | Strata Depth (feet) |    | Description of Materials              | Sampled Segment | PID Reading | Moisture |
|---------------------|-----|-----------------|---------------------|----|---------------------------------------|-----------------|-------------|----------|
| From                | To  |                 | From                | To |                                       |                 |             |          |
| 0                   | 3"  |                 |                     |    | moist, dark brown, silty clay         |                 |             | Moist    |
| 3"                  | 36" |                 |                     |    | dry, light brown silt<br>w/ trash     |                 |             | Dry      |
| 36"                 |     |                 |                     |    | black moist silty layer w/<br>cinders |                 |             | moist    |
|                     |     |                 |                     |    |                                       |                 |             |          |
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Depth to Water: \_\_\_\_\_  
 Drilling Firm: \_\_\_\_\_  
 Drilling Method: \_\_\_\_\_  
 Total Depth: \_\_\_\_\_

Comments: \_\_\_\_\_  
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**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

## SOIL BORING LOG

Project Name: NL-2072 Mainw<sup>d</sup>

Boring ID 55-5B  
92

Project Number: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Logged by: \_\_\_\_\_  
 Date: \_\_\_\_\_

| Sample Depth (feet) |     | Recovery (feet) | Strata Depth (feet) |    | Description of Materials     | Sampled Segment | PID Reading | Moisture |
|---------------------|-----|-----------------|---------------------|----|------------------------------|-----------------|-------------|----------|
|                     |     |                 | From                | To |                              |                 |             |          |
| 0                   |     |                 |                     |    | moist, sandy silt, Brown     |                 |             |          |
|                     | 12" |                 |                     |    | <del>moist</del> micaceous   |                 |             |          |
| 12"                 |     |                 |                     |    | dry, sandy silt, Brown       |                 |             |          |
|                     | 22" |                 |                     |    | w/ trash                     |                 |             |          |
| 22"                 |     |                 |                     |    | Dry, silty sand, light Brown |                 |             |          |
|                     | 36" |                 |                     |    | clastic morphic features     |                 |             |          |
|                     |     |                 |                     |    | trash found @ 28-30" deep    |                 |             |          |
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|---|--|
| Depth to Water: _____<br>Drilling Firm: _____<br>Drilling Method: _____<br>Total Depth: _____ | Comments: _____<br>_____<br>_____<br>_____ |
| Page <u>  </u> of <u>  </u>   |  |



**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

**SOIL BORING LOG**

Project Name: NORWOOD  
 Project Number: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Logged by: (b) (4)  
 Date: 09/29/2020

SS/SB  
 Boring ID 43

| Sample Depth (feet) |     | Recovery (feet) | Strata Depth (feet) |    | Description of Materials  | Sampled Segment | PID Reading | Moisture |
|---------------------|-----|-----------------|---------------------|----|---|-----------------|-------------|----------|
| From                | To  |                 | From                | To |   |                 |             |          |
| 0                   | 3"  |                 |                     |    | top soil  |                 |             |          |
| 3"                  | 36" |                 |                     |    | reddish brown, sandy silt,<br>wl trash, glass, plastic, fabric<br>micaceous |                 |             | moist    |
|                     |     |                 |                     |    |   |                 |             |          |
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Depth to Water: \_\_\_\_\_  
 Drilling Firm: \_\_\_\_\_  
 Drilling: \_\_\_\_\_  
 Method: \_\_\_\_\_  
 Total Depth: \_\_\_\_\_

Comments: \_\_\_\_\_  
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Page of \_\_\_\_\_



**Tetra Tech EM Inc.**  
 240 Continental Drive, Suite 200  
 Newark, Delaware 19713

**SOIL BORING LOG**

SS/SB

Project Name: NORWOOD

Boring ID 44

Project Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Logged by: (b) (4)

Date: 09/29/2020

| Sample Depth (feet) |     | Recovery (feet) | Strata Depth (feet) |    | Description of Materials                                       | Sampled Segment | PID Reading | Moisture |
|---------------------|-----|-----------------|---------------------|----|--|-----------------|-------------|----------|
| From                | To  |                 | From                | To |  |                 |             |          |
| 0                   | 4"  |                 |                     |    | topsoil w/ trash moist   |                 |             | Dry      |
| 4"                  | 30" |                 |                     |    | red-brown, silty sand, <del>dry</del> w/ trash, glass, plastic |                 |             | moist    |
| 30"                 | 36" |                 |                     |    | black silt w/ organics + trash                                 |                 |             | moist    |
| 36"                 |     |                 |                     |    | light brown sandy silt, wet micaceous                          |                 |             | wet      |
|                     |     |                 |                     |    |  |                 |             |          |
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|------------------|-----------|--|--|
| Depth to Water:  | Comments: |  |  |
| Drilling Firm:   |           |  |  |
| Drilling Method: |           |  |  |
| Total Depth:     |           |  |  |
| Page of          |           |  |  |



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-55-21
Sample Location: 55-21 58-21
Sampled By: J. Ryan
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Time, Depth, Method, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten values like 9/28/2020, 0845, 0-1, 6.46, and NA.

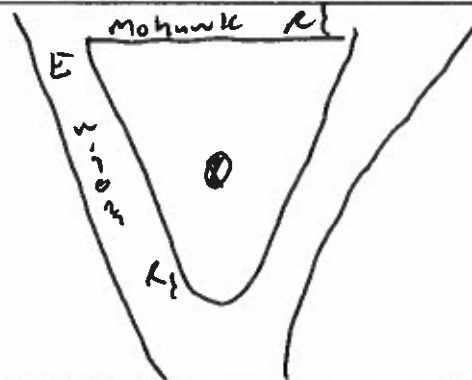
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like Low/Medium VOCs, TAL SVOCs, Pesticides, etc.

OBSERVATION / NOTES:

39.88701073°N
75.2976985°W

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time: NA

Handwritten signature

Notes:

Blank lines for notes

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: ML-2020-SS-22  
 Sample Location: SS-22  
 Sampled By: SKP  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/28/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>11:5</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>       | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Core</u>      |           |          |       |           |           |      |          |     |

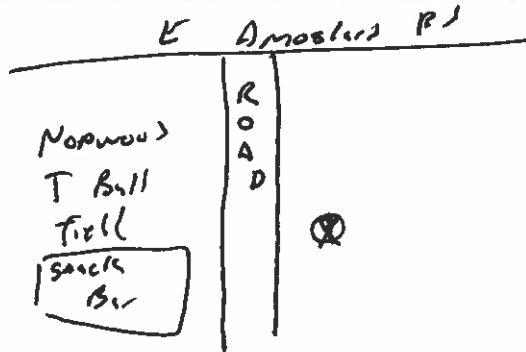
SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative    | Container Requirements   | Collected    |
|----------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs            | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None            | 2- oz CWM jar            | 1            |
|                            |                 |                          |              |
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OBSERVATION / NOTES:

39.88542118 °W  
75.29204471 °W

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

**(b) (4)**

Notes:

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SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-5B-22  
 Sample Location: 5B-22  
 Sampled By: (b) (4)  
 C.O.C. No: 7

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/28/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1130</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>12-13</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>GCS</u>       |           |          |       |           |           |      |          |     |

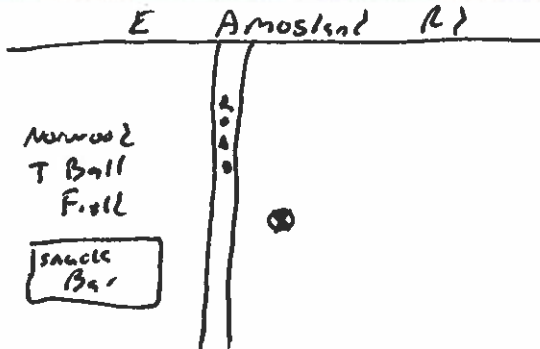
SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative    | Container Requirements   | Collected    |
|----------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs            | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None            | 2- oz CWM jar            | 1            |
|                            |                 |                          |              |
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OBSERVATION / NOTES:

39.88542118<sup>on</sup>  
75.2920471

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

NA

Sample Time:

(b) (4)

Notes:

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SOIL SAMPLE LOG SHEET



TETRA TECH

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-23  
 Sample Location: SS23  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>0820</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Gravel</u>  |           |          |       |           |           |      |          |     |

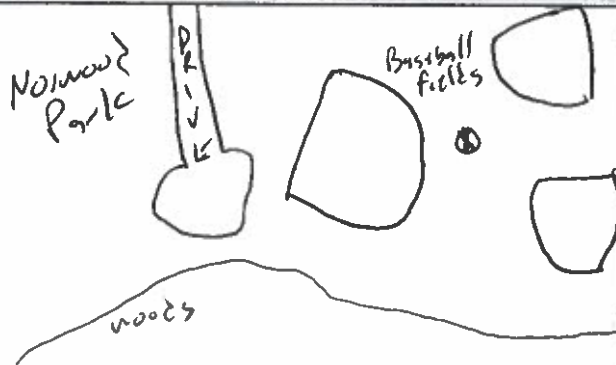
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative | Container Requirements | Collected |
|---------------------------|--------------|------------------------|-----------|
| Low/Medium VOCs           | None         | 5-g Encore             | 3         |
| TAL SVOCs and PAHS by SIM | None         | 8- oz CWM jar          | 1         |
| Pesticides and PCBs       | None         | 8- oz CWM jar          | 1         |
| TAL Metals and HG         | None         | 8- oz CWM jar          | 1         |
| Dioxins/ Furans           | None         | 8- oz CWM jar          | 1         |
| Percent moisture          | None         | 2- oz CWM jar          | 1         |
|                           |              |                        |           |
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OBSERVATION / NOTES:

39.88487089<sup>ow</sup>  
25.28948288<sup>ow</sup>

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time: NA

**(b) (4)**

Notes:

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TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-SB-23
Sample Location: SB-23
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten entries: 9/30/20, 0845, 16-17, G/09, NA.

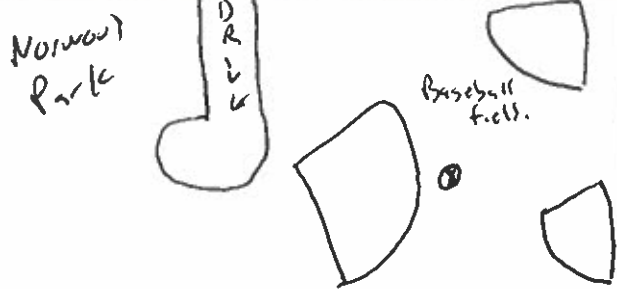
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like Low/Medium VOCs, TAL SVOCs, etc.

OBSERVATION / NOTES:

39.88487089°N
75.28948288°W

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

(b) (4)

Notes:

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TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: NL-2020-SS-27  
Sample Location: SS-27  
Sampled By: (b) (4)  
C.O.C. No:

SAMPLING DATA

|         |           |        |          |       |           |           |      |          |     |
|---------|-----------|--------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | 9/29/2020 | Color  | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | 0805      | Visual | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | 0-1       | NA     |          |       |           |           |      |          |     |
| Method: | Grn       |        |          |       |           |           |      |          |     |

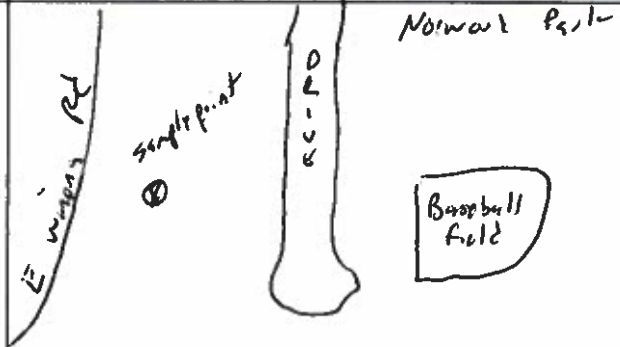
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.8837255901  
75.2909025204



Circle if Applicable

Signature(s)

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

(b) (4)

Notes:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: ML-2020-SB-24
Sample Location: SB-24
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Time, Depth, Method, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten entries like 9/29/2020, 0815, 6-7, Grc4, and NA.

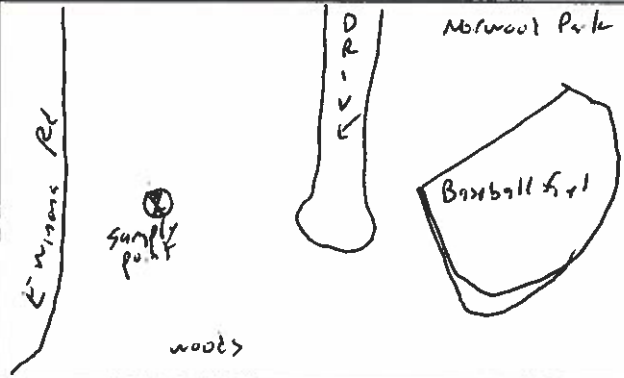
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like Low/Medium VOCs, TAL SVOCs, Pesticides, etc.

OBSERVATION / NOTES:

MAP:

Handwritten coordinates: 39.88372559 and 75.29090252



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

(b) (4)

Notes:

Blank lines for additional notes.



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-SS-25
Sample Location: SS-25
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten values like 9/28/2020, 0955, 2-3, and NA.

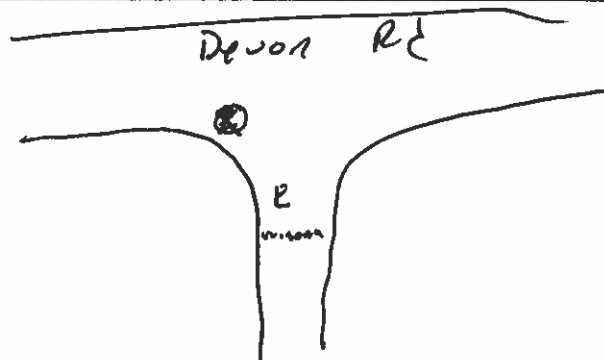
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like VOCs, SVOCs, PAHs, Pesticides, etc.

OBSERVATION / NOTES:

Handwritten notes: 39.88309468, 75.29358688

MAP:



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

Blank lines for additional notes.

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: ML-2020-SB-25  
 Sample Location: SB-25  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>7/28/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1005</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>5-6</u>       | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Grub</u>      |           |          |       |           |           |      |          |     |

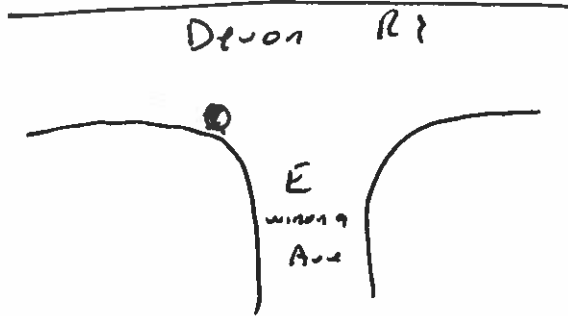
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

39. 88309468  
75. 29358688

MAP:



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

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 \_\_\_\_\_  
 \_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-55-28
Sample Location: 55-28
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten entries for date (9/30/20), time (0930), depth (0-1), and method (Grav).

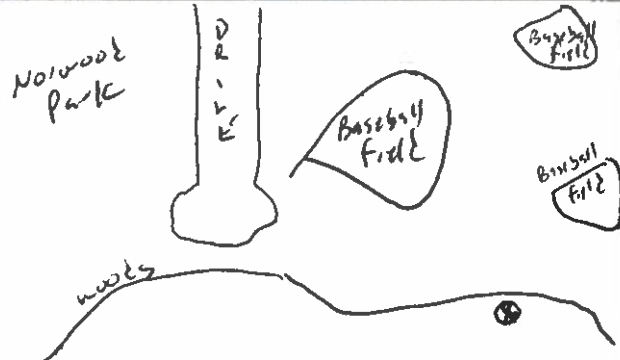
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like VOCs, SVOCs, PAHs, Pesticides, PCBs, Metals, and moisture.

OBSERVATION / NOTES:

Handwritten observation notes: 39.88412714 o.w, 75.28899706 o.w

MAP:



Circle if Applicable

Signature:

(b) (4)

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

Notes:

Blank lines for additional notes.



SOIL SAMPLE LOG SHEET



TETRA TECH

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-38  
 Sample Location: SB-26  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>0940</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>15-16</u>   | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Gras</u>    |           |          |       |           |           |      |          |     |

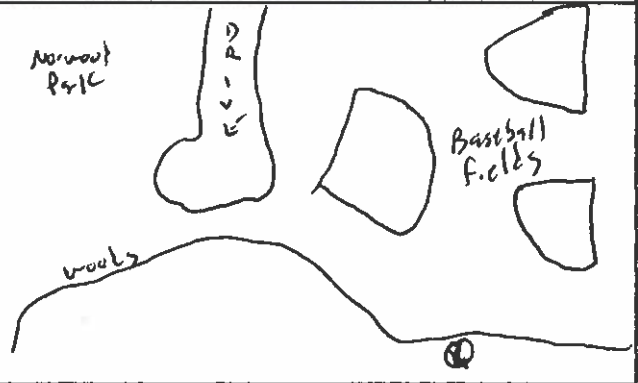
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

39.88412714 ow  
75.28899706 ow

MAP:



Circle if Applicable

Signature:

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

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 \_\_\_\_\_  
 \_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020 - 55-29
Sample Location: 55-29
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten entries for date (10/01/2020), depth (0-1), and method (Gravel).

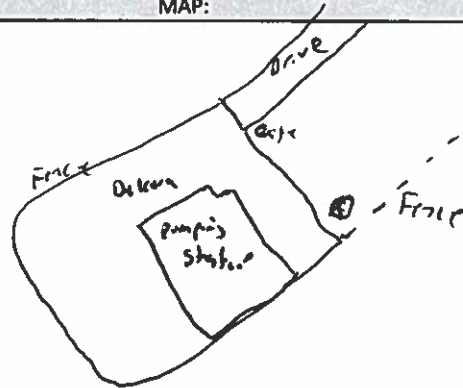
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like VOCs, SVOCs, PAHs, Pesticides, PCBs, Metals, and moisture.

OBSERVATION / NOTES:

37.88401497°N
75.28789660°W

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

NA

Sample Time:

(b) (4)

Notes:

Blank lines for notes.

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-29  
 Sample Location: SB-29  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                 |           |          |       |           |           |      |          |     |
|---------|-----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>10/01/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1050</u>     | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>8-9</u>      | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Grub</u>     |           |          |       |           |           |      |          |     |

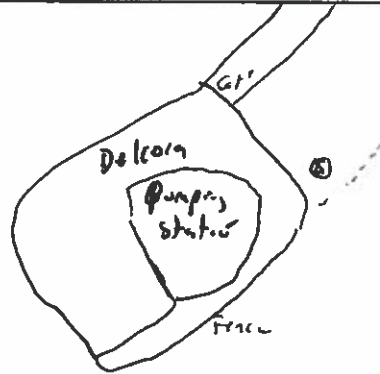
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.88401497 ON  
75.28789660 ON



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

(b) (4)

Notes:

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 \_\_\_\_\_  
 \_\_\_\_\_

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-30  
 Sample Location: SS-30  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|                        |           |          |       |           |           |      |          |     |
|------------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE: <u>10/01/20</u>  | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time: <u>0830 0825</u> | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth: <u>0-1</u>      | <u>NA</u> |          |       |           |           |      |          |     |
| Method: <u>GR</u>      |           |          |       |           |           |      |          |     |

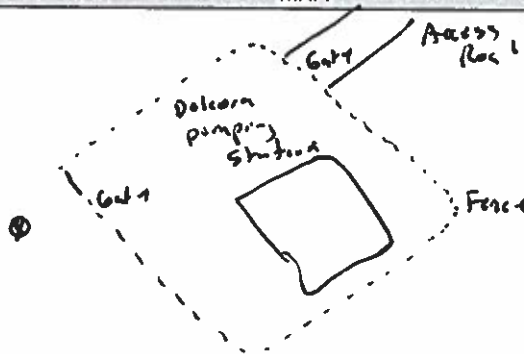
SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative    | Container Requirements   | Collected    |
|----------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs            | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None            | 2- oz CWM jar            | 1            |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |

OBSERVATION / NOTES:

see GIS

MAP:



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-58-30
Sample Location: 58-30
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten values like 10/01/2020, 0845, 19-20, 61.1, and NA.

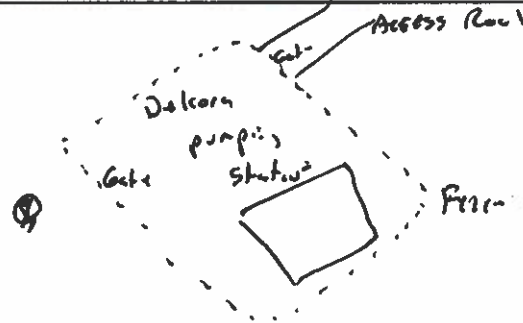
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like Low/Medium VOCs, TAL SVOCs, etc.

OBSERVATION / NOTES:

MAP:

See GIS



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

Horizontal lines for notes.



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-SS-31
Sample Location: SS-31
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten values like 9/28/2020, 1230, 0-1, 6-5-7, and NA.

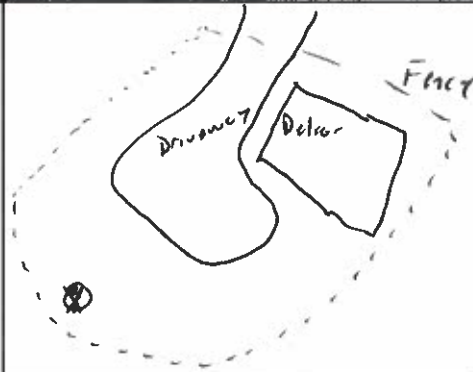
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like VOCs, PAHs, Pesticides, etc.

OBSERVATION / NOTES:

39. 8836 2467' NW
75. 288 60158' SW

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

(b) (4)

Notes:

Horizontal lines for writing notes.

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-31  
 Sample Location: SB-31  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/28/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1245</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>14-15</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Grub</u>      |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative | Container Requirements   | Collected    |
|----------------------------|--------------|--------------------------|--------------|
| Low/Medium VOCs            | None         | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None         | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None         | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None         | 8- oz CWM jar            | 1            |
| <del>Dioxins/ Furans</del> | None         | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None         | 2- oz CWM jar            | 1            |
|                            |              |                          |              |
|                            |              |                          |              |
|                            |              |                          |              |
|                            |              |                          |              |
|                            |              |                          |              |

OBSERVATION / NOTES:

39.883624670N  
75.288601580W

MAP:



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-5B-32  
 Sample Location: 5B-32  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                   |           |          |       |           |           |      |          |     |
|---------|-------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>10/01/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>0950</u>       | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>7-8</u>        | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>GRY</u>        |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.88411938 °N  
75.28836289 °W

see GPS

Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-32  
 Sample Location: SS-32  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                   |           |          |       |           |           |      |          |     |
|---------|-------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>10/01/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>0945</u>       | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>        | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>6.1</u>        |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxin/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.88411938°N  
75.28836289°W

see GPS

Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-33  
 Sample Location: SS-33  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1330</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>GC4</u>     |           |          |       |           |           |      |          |     |

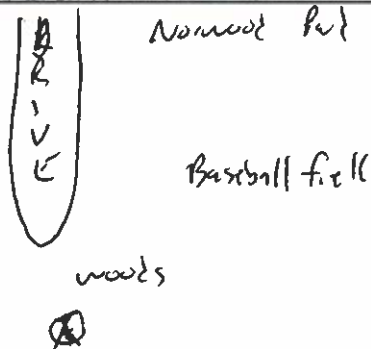
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.883756720~  
75.289708580w



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: 1245

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-33  
 Sample Location: SB-33  
 Sampled By: (b) (4)  
 C.O.C. No: 1

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1250</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>9-10</u>      | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>GCY</u>       |           |          |       |           |           |      |          |     |

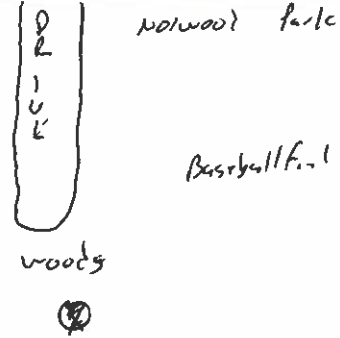
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

34.883756720W  
 75.289708580W



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: 1300

**(b) (4)**

Notes:

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 \_\_\_\_\_  
 \_\_\_\_\_

SOIL SAMPLE LOG SHEET



TETRA TECH

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-34  
 Sample Location: SS-34  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/29/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>0855</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Gr. S</u>   |           |          |       |           |           |      |          |     |

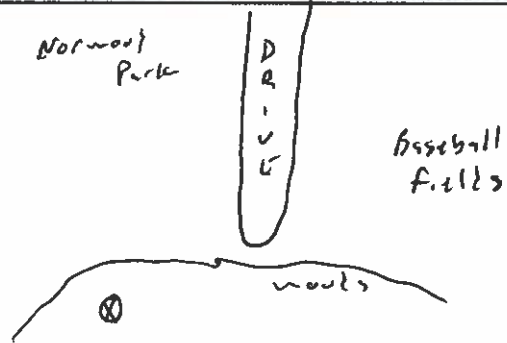
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

39.88329446 °C  
75.29056918 °C

MAP:



Circle if Applicable

MS/MSD  
NA

Duplicate ID No: NA  
 Sample Time: NA

Signature(s):

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NE-2020-58-34  
 Sample Location: 5B-34  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>1/29/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>0900</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>6-7</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Grav</u>    |           |          |       |           |           |      |          |     |

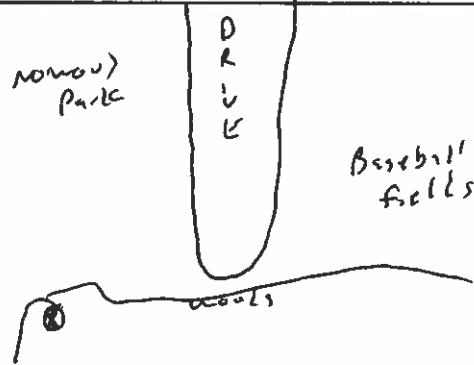
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

39.88329446<sup>ow</sup>  
75.29056918<sup>ow</sup>

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: NL-2020-SB-35  
Sample Location: SB-35  
Sampled By: (b) (4)  
C.O.C. No:

SAMPLING DATA

|         |           |        |          |       |           |           |      |          |     |
|---------|-----------|--------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | 9/30/2020 | Color  | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | 1440      | Visual | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | 70-11     | NA     |          |       |           |           |      |          |     |
| Method: | Grab      |        |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.88329040 °N  
75.28881457 °W



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

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SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-35  
 Sample Location: SS-35  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1430</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>       | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Core</u>      |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative    | Container Requirements   | Collected    |
|----------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs            | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None            | 8- oz CWM jar            | 1            |
| <del>Diexins/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None            | 2- oz CWM jar            | 1            |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |
|                            |                 |                          |              |

OBSERVATION / NOTES:

MAP:

39.88329040°N  
75.28881457°W



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

(b) (4)

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SOIL SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SS-36  
 Sample Location: SS-36  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1100</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>GC</u>      |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative | Container Requirements | Collected |
|---------------------------|--------------|------------------------|-----------|
| Low/Medium VOCs           | None         | 5-g Encore             | 3         |
| TAL SVOCs and PAHS by SIM | None         | 8- oz CWM jar          | 1         |
| Pesticides and PCBs       | None         | 8- oz CWM jar          | 1         |
| TAL Metals and HG         | None         | 8- oz CWM jar          | 1         |
| Dioxins/ Furans           | None         | 8- oz CWM jar          | 1         |
| Percent moisture          | None         | 2- oz CWM jar          | 1         |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |

OBSERVATION / NOTES:

A 39.88 245873 uM  
 75.28 988366 uM

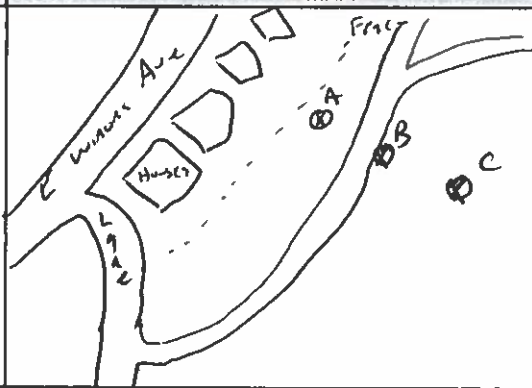
---

B 39.88 246945 uM  
 75.28 983000 uM

---

C 39.88 245495 uM  
 75.28 971259 uM

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

**(b) (4)**

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-36  
 Sample Location: SB-36  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

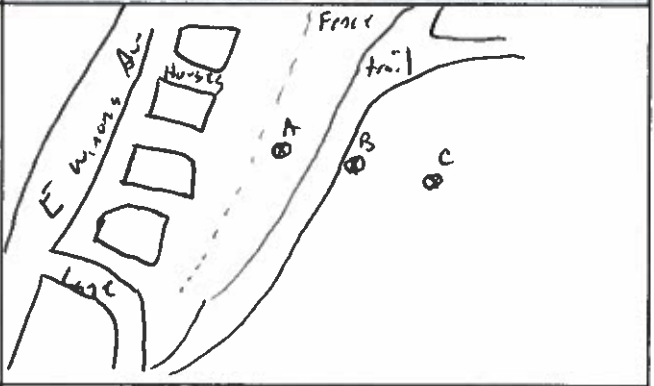
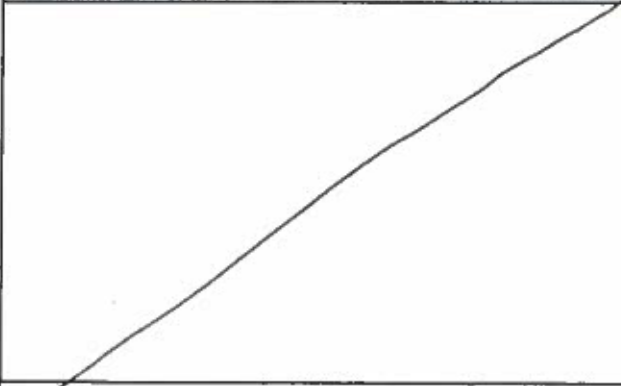
|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/30/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1110</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>5-6</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>GCH</u>     |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

MAP:



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

**(b) (4)**

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: NL-2020-SS-37  
Sample Location: SS-37  
Sampled By: (b) (4)  
C.O.C. No:

SAMPLING DATA

|         |           |        |          |       |           |           |      |          |     |
|---------|-----------|--------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | 9/28/2020 | Color  | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | 1515      | Visual | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | 0-1       | NA     |          |       |           |           |      |          |     |
| Method: | GRA       |        |          |       |           |           |      |          |     |

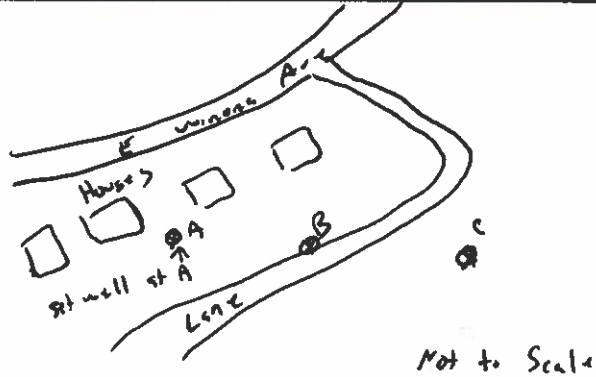
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative | Container Requirements | Collected |
|---------------------------|--------------|------------------------|-----------|
| Low/Medium VOCs           | None         | 5-g Encore             | 3         |
| TAL SVOCs and PAHS by SIM | None         | 8- oz CWM jar          | 1         |
| Pesticides and PCBs       | None         | 8- oz CWM jar          | 1         |
| TAL Metals and HG         | None         | 8- oz CWM jar          | 1         |
| Dioxins/ Furans           | None         | 8- oz CWM jar          | 1         |
| Percent moisture          | None         | 2- oz CWM jar          | 1         |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |
|                           |              |                        |           |

OBSERVATION / NOTES:

39.88174348 °N  
75.29007925 °W

MAP:



Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No:

Sample Time:

NA

(b) (4)

Notes:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-37  
 Sample Location: SB-37  
 Sampled By: (b) (4)  
 C.O.C. No: /

SAMPLING DATA

|         |                  |           |          |       |           |           |      |          |     |
|---------|------------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/28/2020</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1520</u>      | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>6-7</u>       | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>Grab</u>      |           |          |       |           |           |      |          |     |

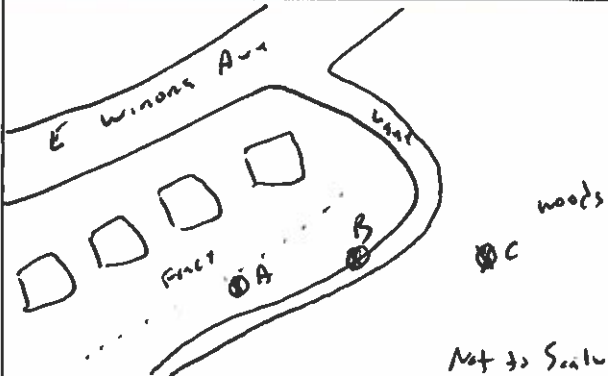
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |
|                           |                 |                          |              |

OBSERVATION / NOTES:

37.88 174348<sup>0N</sup>  
75.29 007925

MAP:



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

**(b) (4)**

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-SS-38
Sample Location: SS-36
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with columns: DATE, Time, Depth, Method, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten entries like 9/29/20, 1400, 0-1, G, and NA.

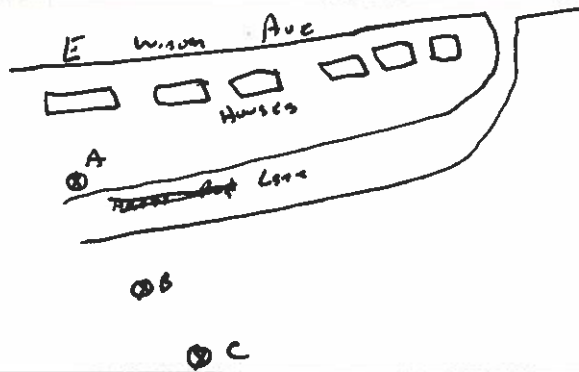
SAMPLE COLLECTION INFORMATION

Table with columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like Low/Medium VOCs, TAL SVOCs, Pesticides, etc.

OBSERVATION / NOTES:

see GPS

MAP:



Circle if Applicable

MS/MSD

NA

Duplicate ID No:

Sample Time: NA

Signature(s):

(b) (4)

Notes:

Blank lines for notes.



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: NL-2020-SB-38  
Sample Location: SB-32  
Sampled By: (b) (4)  
C.O.C. No:

SAMPLING DATA

|         |         |        |          |       |           |           |      |          |     |
|---------|---------|--------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | 9/29/20 | Color  | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | 1405    | Visual | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | 5-6     | NA     |          |       |           |           |      |          |     |
| Method: | Gr. v   |        |          |       |           |           |      |          |     |

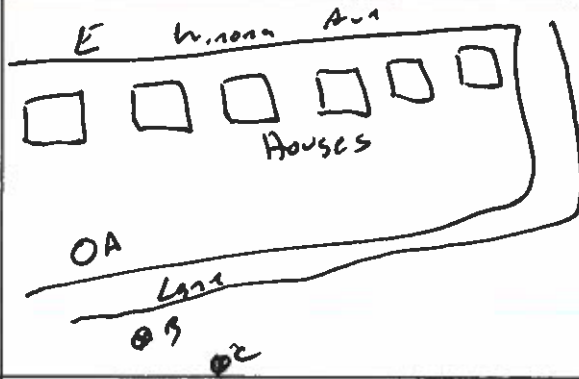
SAMPLE COLLECTION INFORMATION

| Analysis                  | Preservative    | Container Requirements   | Collected    |
|---------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2- oz CWM jar            | 1            |
|                           |                 |                          |              |
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|                           |                 |                          |              |

OBSERVATION / NOTES:

SL 615

MAP:



Circle if Applicable

MS/MSD

NA

Duplicate ID No:

Sample Time: NA

Signature(s):

(b) (4)

Notes:

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TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: ML-2020-55-39A  
Sample Location: 55-39A  
Sampled By: (b) (4)  
C.O.C. No:

SAMPLING DATA

|         |           |        |          |       |           |           |      |          |     |
|---------|-----------|--------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | 9/29/2020 | Color  | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | 1145      | Visual | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | 0-1       | NA     |          |       |           |           |      |          |     |
| Method: | Grav      |        |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

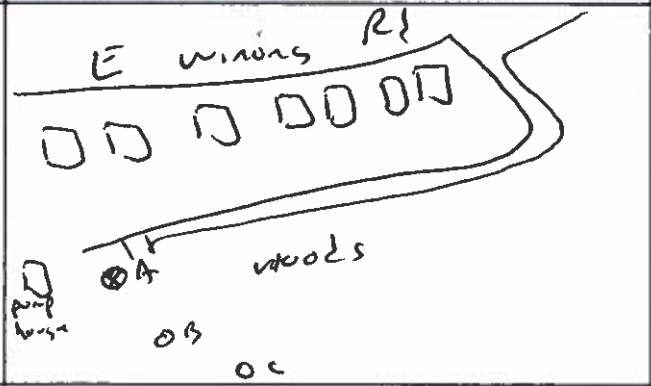
| Analysis                  | Preservative | Container Requirements | Collected |
|---------------------------|--------------|------------------------|-----------|
| Low/Medium VOCs           | None         | 5-g Encore             | 3         |
| TAL SVOCs and PAHS by SIM | None         | 8- oz CWM jar          | 1         |
| Pesticides and PCBs       | None         | 8- oz CWM jar          | 1         |
| TAL Metals and HG         | None         | 8- oz CWM jar          | 1         |
| Dioxins/ Furans           | None         | 8- oz CWM jar          | 1         |
| Percent moisture          | None         | 2- oz CWM jar          | 1         |
|                           |              |                        |           |
|                           |              |                        |           |
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OBSERVATION / NOTES:

MAP:

39A 39.88669154 °L  
75.29159497 °W

~~39B0~~  
9/29/2020



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No: Dioxin / Furans

NA

Sample Time: 1215

(b) (4)

Notes:

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TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: NL-2020-SB-314  
Sample Location: SB-314  
Sampled By: (b) (4)  
C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                  |        |          |       |           |           |      |          |     |
|---------|------------------|--------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/29/2020</u> | Color  | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1200</u>      | Visual | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>11-12</u>     |        |          |       |           |           |      |          |     |
| Method: | <u>Gr</u>        |        |          |       |           |           |      |          |     |

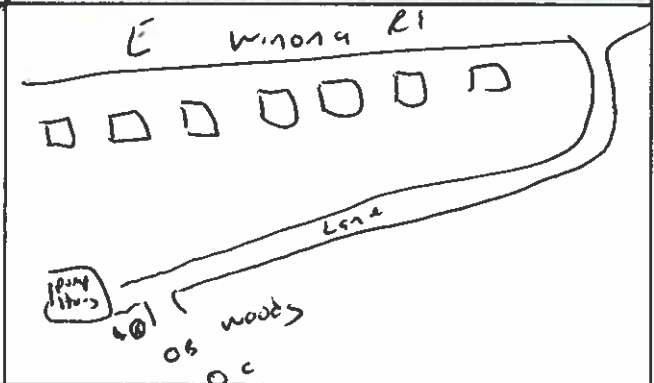
SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative    | Container Requirements   | Collected    |
|----------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs            | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None            | 2- oz CWM jar            | 1            |
|                            |                 |                          |              |
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OBSERVATION / NOTES:

MAP:

*(This area is mostly blank with a diagonal line drawn across it.)*



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

**(b) (4)**

Notes:

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\_\_\_\_\_



TETRA TECH

SOIL SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
Project Number: 103X903403004

Sample ID No: NL-2020-SS-39  
Sample Location: SS-39  
Sampled By: (b) (4)  
C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/29/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1020</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>0-1</u>     | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>G/S</u>     |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

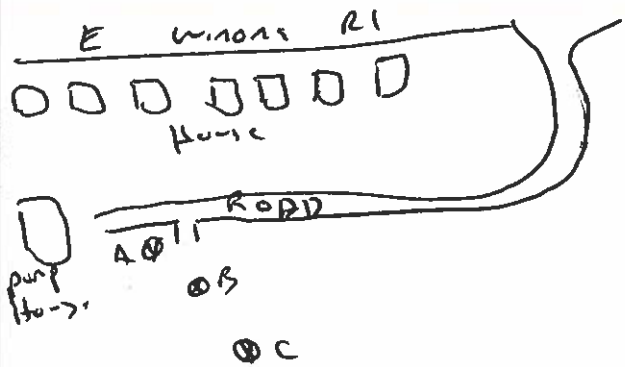
| Analysis                  | Preservative    | Container Requirements  | Collected    |
|---------------------------|-----------------|-------------------------|--------------|
| Low/Medium VOCs           | None            | 5-g Encore              | 3            |
| TAL SVOCs and PAHS by SIM | None            | 8-oz CWM jar            | 1            |
| Pesticides and PCBs       | None            | 8-oz CWM jar            | 1            |
| TAL Metals and HG         | None            | 8-oz CWM jar            | 1            |
| <del>Dioxins/Furans</del> | <del>None</del> | <del>8-oz CWM jar</del> | <del>1</del> |
| Percent moisture          | None            | 2-oz CWM jar            | 1            |
|                           |                 |                         |              |
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OBSERVATION / NOTES:

MAP:

39B 39.880520650m  
75.29153893

39C 39.880228750m  
75.291521850m



Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

**(b) (4)**

Notes:

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SOIL SAMPLE LOG SHEET



TETRA TECH

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-SB-39  
 Sample Location: SB-39  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                |           |          |       |           |           |      |          |     |
|---------|----------------|-----------|----------|-------|-----------|-----------|------|----------|-----|
| DATE:   | <u>9/29/20</u> | Color     | pH       | S.C.  | Temp.     | Turbidity | DO   | Salinity | ORP |
| Time    | <u>1030</u>    | Visual    | Standard | mS/cm | Degrees C | NTU       | mg/L | ppt      | mV  |
| Depth:  | <u>13-14</u>   | <u>NA</u> |          |       |           |           |      |          |     |
| Method: | <u>6cm</u>     |           |          |       |           |           |      |          |     |

SAMPLE COLLECTION INFORMATION

| Analysis                   | Preservative    | Container Requirements   | Collected    |
|----------------------------|-----------------|--------------------------|--------------|
| Low/Medium VOCs            | None            | 5-g Encore               | 3            |
| TAL SVOCs and PAHS by SIM  | None            | 8- oz CWM jar            | 1            |
| Pesticides and PCBs        | None            | 8- oz CWM jar            | 1            |
| TAL Metals and HG          | None            | 8- oz CWM jar            | 1            |
| <del>Dioxins/ Furans</del> | <del>None</del> | <del>8- oz CWM jar</del> | <del>1</del> |
| Percent moisture           | None            | 2- oz CWM jar            | 1            |
|                            |                 |                          |              |
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OBSERVATION / NOTES:

MAP:

Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

NA

(b) (4)

Notes:

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|-------------------------------------|--|---------------------------|--|
| Project: <i>Norwood Residential</i> |  | Boring Number: <i>123</i> | Page <i>1</i> of <i>1</i>                          |
| Site Name:                          |  | Boring Location           | Date: Start <u><i>11/30</i></u><br><i>11/17/20</i> |
| Address:                            |  |                           | Finish <u><i>1440</i></u>                          |

| Sample Number   | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  |  | GVARDID/OVM<br>PFB | Remarks |
|-----------------|---------------|-----------------|------------------|--------------|---|--|--------------------|---------|
| <i>0-0.5 HA</i> |               |                 | <i>ML</i>        | <i>0-1</i>   | <i>Dark brown, dry, soft, moderately cohesive, low plasticity silt with organic material.</i>                                   |  | <i>10</i>          |         |
| <i>2-4 HA</i>   |               |                 | <i>ML</i>        | <i>1-4</i>   | <i>Brown, dry, slightly soft, moderately cohesive, low plasticity, slightly micaceous silt (Mississippian parent material).</i> |  | <i>10</i>          |         |
|                 |               |                 |                  |              |   |  |                    |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

|  |  |   |
|--|--|---|
| Groundwater Data<br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____ | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist <b>(b) (4)</b><br>Driller/Co _____ |  <b>TETRA TECH</b> |
| Note: Boring backfilled unless otherwise noted                                   |  |   |

|                              |                                |  |
|------------------------------|--------------------------------|--|
| Project: <i>Norwood</i>      | Boring Number: <i>106 12.6</i> | Page <i>1</i> of <i>1</i>              |
| Site Name:                   | Boring Location:               | Date: <i>11/18/20</i> Start <i>830</i> |
| Address: <i>557 E Winona</i> |                                | Finish <i>845</i>                      |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description                        |  | OVA/PID/FID/OVM | Remarks |
|---------------|---------------|-----------------|------------------|--------------|---|--|-----------------|---------|
| <i>0-0.5</i>  | <i>Ht.</i>    |                 | <i>ML</i>        | <i>0-1</i>   | <i>dark brown slightly moist moderately cohesive silt</i> |  | <i>0</i>        |         |
| <i>2-3</i>    | <i>HA</i>     |                 |                  |              | <i>light brown, moist clay</i>                            |  | <i>0</i>        |         |
|               |               |                 |                  |              | <i>Art refusal @ 9.5 ft bgs</i>                           |  |                 |         |

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

|                        |   |                   |
|------------------------|---|-------------------|
| Groundwater Data       | Auger Depth _____ Rig _____                           | <b>TETRA TECH</b> |
| ▼ Depth While Drilling | Rotary Depth _____ Geologist _____                    |                   |
| ▽ Depth After Drilling | Driller/Co _____                                      |                   |
|                        | <b>Note: Boring backfilled unless otherwise noted</b> |                   |

|                                     |                           |   |
|-------------------------------------|---------------------------|---|
| Project: <i>Norwood Residential</i> | Boring Number: <i>100</i> | Page <i>1</i> of <i>1</i>                                     |
| Site Name:                          | Boring Location:          | Date: Start <i>0830</i><br><i>11/17/20</i> Finish <i>0845</i> |
| Address:                            |                           |   |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  | Remarks    |
|---------------|---------------|-----------------|------------------|--------------|---|------------|
| <i>0-0.5</i>  | <i>HA</i>     |                 | <i>MH</i>        | <i>0-2</i>   | <i>Dark brown, soft, slightly moist, moderate plasticity organic rich SILT.</i> | <i>0.0</i> |
| <i>2-4</i>    | <i>HA</i>     |                 | <i>CH</i>        | <i>2-4</i>   | <i>Light brown, slightly soft, moist to wet, high plasticity fat CLAY.</i>      | <i>0.0</i> |
|               |               |                 |                  |              |   |            |
|               |               |                 |                  |              |   |            |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

|   |   |            |
|---|---|------------|
| Groundwater Data                                      | Auger Depth _____ Rig _____                 | TETRA TECH |
| ▼ Depth While Drilling _____                          | Rotary Depth _____ Geologist <i>(b) (4)</i> |            |
| ∇ Depth After Drilling _____                          | Driller/Co _____                            |            |
| <b>Note: Boring backfilled unless otherwise noted</b> |   |            |

|                                     |                           |   |
|-------------------------------------|---------------------------|---|
| Project: <u>Norwood Residential</u> | Boring Number: <u>107</u> | Page <u>1</u> of <u>1</u>                                     |
| Site Name:                          | Boring Location           | Date: Start <u>0930</u><br><u>11/17/20</u> Finish <u>0940</u> |
| Address:                            |                           |   |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  | OYAWIDR/D/OVM<br>(PPB) | Remarks |
|---------------|---------------|-----------------|------------------|--------------|---|------------------------|---------|
| 0-0.5         | HA            |                 | ML               | 0-4          | <i>Light to dark brown, occasionally brownish gray, slightly soft, moderate cohesion, low plasticity, dry to moist, slightly micaceous SILT; 15% mod plasticity, gray CLAY. (Wissahickon schist parent material.)</i> | 10                     |         |
| 2-4           | HA            |                 |                  |              |   | 10                     |         |
|               |               |                 |                  |              |   |                        |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

|                              |  |   |
|------------------------------|--|---|
| Groundwater Data             | Auger Depth _____ Rig _____                    |  <b>TETRA TECH</b> |
| ▼ Depth While Drilling _____ | Rotary Depth _____ Geologist <b>(b) (4)</b>    |   |
| ▽ Depth After Drilling _____ | Driller/Co _____                               |   |
|                              | Note: Boring backfilled unless otherwise noted |   |

|                                     |                           |                           |
|-------------------------------------|---------------------------|---------------------------|
| Project: <i>Norwood Residential</i> | Boring Number: <i>108</i> | Page <i>1</i> of <i>1</i> |
| Site Name:                          | Boring Location:          | Date: Start <i>1015</i>   |
| Address:                            |                           | Finish <i>1025</i>        |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  |  |           | Remarks |
|---------------|---------------|-----------------|------------------|--------------|---|--|-----------|---------|
| <i>0-0.5</i>  | <i>HA</i>     |                 | <i>MH</i>        | <i>0-1</i>   | <i>Dark brown, slightly moist, soft, moderate plasticity SILT.</i>  |  | <i>10</i> |         |
| <i>2-4</i>    | <i>HA</i>     |                 | <i>ML</i>        | <i>1-4</i>   | <i>Brown, dry, slightly soft, low plasticity, moderate cohesion, slightly micaceous SILT (Wisconsin parent material).</i> |  | <i>10</i> |         |
|               |               |                 |                  |              |   |  |           |         |
|               |               |                 |                  |              |   |  |           |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

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| <p><b>Groundwater Data</b></p> <p>▼ Depth While Drilling _____</p> <p>▽ Depth After Drilling _____</p> | <p>Auger Depth _____ Rig _____</p> <p>Rotary Depth _____ Geologist <b>(b) (4)</b></p> <p>Driller/Co _____</p> <p>Note: Boring backfilled unless otherwise noted</p> |  |
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| Project: <i>Norwood Residential</i> | Boring Number: <i>III</i> | Page 1 of 1             |
| Site Name:                          | Boring Location:          | Date: Start <i>1105</i> |
| Address:                            |                           | Finish <i>1115</i>      |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  | OVA <input type="checkbox"/> ID <input type="checkbox"/> VID <input type="checkbox"/> OVM <input type="checkbox"/> | Remarks |
|---------------|---------------|-----------------|------------------|--------------|---|--|---------|
| <i>0-0.5</i>  | <i>HA</i>     |                 | <i>ML</i>        | <i>0-1</i>   | <i>Dark brown, slightly moist, soft, low plasticity SILT with organic material.</i>   | <i>10</i>  |         |
| <i>2-4</i>    | <i>HA</i>     |                 | <i>ML</i>        | <i>1-4</i>   | <i>Brown, slightly soft, dry, moderate cohesion, low plasticity, slightly micaceous SILT (Wissahickon parent material).</i> | <i>10</i>  |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

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| <p>Groundwater Data</p> <p>▼ Depth While Drilling _____</p> <p>▽ Depth After Drilling _____</p> | <p>Auger Depth _____ Rig _____</p> <p>Rotary Depth _____ Geologist <b>(b) (4)</b></p> <p>Driller/Co _____</p> <p>Note: Boring backfilled unless otherwise noted</p> |  <b>TETRA TECH</b> |
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| Project: <u>Norwood Residential</u> | Boring Number: <u>112</u> | Page <u>1</u> of <u>1</u>  |
| Site Name:                          | Boring Location:          | Date: <u>11/17/20</u><br>Start <u>1150</u><br>Finish <u>1200</u> |
| Address:                            |                           |  |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  | OVA/MP/FPD/OVM<br>ppb | Remarks |
|---------------|---------------|-----------------|------------------|--------------|---|-----------------------|---------|
| <u>0-0.5</u>  | <u>HA</u>     |                 | <u>ML</u>        | <u>0-1</u>   | <u>Dark brown, slightly moist, soft, low plasticity, SILT with organic material</u>   | <u>10</u>             |         |
| <u>2-4</u>    | <u>HA</u>     |                 | <u>ML</u>        | <u>1-4</u>   | <u>Brown, slightly, soft, dry, moderate cohesion, low plasticity, slightly micaceous SILT (with calcareous parent material)</u> | <u>10</u>             |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.


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| Groundwater Data<br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____ | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist <u>(b) (4)</u><br>Driller/Co _____ |  <b>TETRA TECH</b> |
| Note: Boring backfilled unless otherwise noted                                   |  |   |



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| Project: <i>Norwood Residential</i> |  | Boring Number: <i>117</i> | Page <i>1</i> of <i>1</i> |
| Site Name:                          |  | Boring Location:          | Date: Start <i>1235</i>   |
| Address:                            |  |                           | Finish <i>1245</i>        |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description   | OVASID/VID/OVM<br><i>PPB</i> | Remarks |
|---------------|---------------|-----------------|------------------|--------------|--|------------------------------|---------|
| <i>0-0.5</i>  | <i>HA</i>     |                 | <i>ML</i>        | <i>0-1</i>   | <i>Dark brown, dry, soft, moderate cohesion, low plasticity SLT with organic material.</i>                                   | <i>10</i>                    |         |
| <i>2-4</i>    | <i>HA</i>     |                 | <i>ML</i>        | <i>1-4</i>   | <i>Brown, slightly soft, dry, moderate cohesion, low plasticity, slightly micaceous SLT (Mississippian parent material).</i> | <i>10</i>                    |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

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| Groundwater Data                               |   | Auger Depth _____ Rig _____ |  <b>TETRA TECH</b> |
| ▼ Depth While Drilling                         | Rotary Depth _____ Geologist <b>(b) (4)</b> | Driller/Co _____            |   |
| ▽ Depth After Drilling                         | _____                                       |                             |   |
| Note: Boring backfilled unless otherwise noted |   |                             |   |

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| Project: <i>Norwood Residential</i> |  | Boring Number: <i>118</i> | Page <i>1</i> of <i>1</i>             |
| Site Name:                          |  | Boring Location           | Date: Start <i>1400</i>               |
| Address:                            |  |                           | Finish <i>1410</i><br><i>11/17/20</i> |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description  | OVAL/ID/FID/OVUM<br><i>PPS</i> | Remarks |
|---------------|---------------|-----------------|------------------|--------------|---|--------------------------------|---------|
| <i>0-0.5</i>  | <i>HA</i>     |                 | <i>ML</i>        | <i>0-1</i>   | <i>Dark brown, dry, moderately cohesive, low plasticity SILT with organic material.</i>   | <i>10</i>                      |         |
| <i>1-4</i>    | <i>HA</i>     |                 | <i>ML</i>        | <i>1-4</i>   | <i>Brown, dry, moderately cohesive, low plasticity, slightly micaceous SILT (Wissahickon parent material).<br/><br/>Gray wood fragments observed at 4'.</i> | <i>10</i>                      |         |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

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| Groundwater Data<br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____ | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist <i>(b) (4)</i><br>Driller/Co _____ |  <b style="font-size: 1.2em; vertical-align: middle;">TETRA TECH</b> |
| Note: Boring backfilled unless otherwise noted                                   |  |   |

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| Project: <u>Norwood</u>       | Boring Number: <u>128</u> | Page 1 of                   |
| Site Name:                    | Boring Location           | Date: Start <u>0915</u>     |
| Address: <u>565 Elkinon 9</u> |                           | 11/18/20 Finish <u>0930</u> |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description               |    |  | OVA/PID/FID/OVM | Remarks |
|---------------|---------------|-----------------|------------------|--------------|--|----|--|-----------------|---------|
| 0-0.6         |               |                 |                  |              | Top soil   |    |  |                 |         |
| 0.5-1         |               |                 |                  |              | Brown dry silt                                   | SS |  |                 |         |
| 1-2           |               |                 |                  |              | gravel glass brown soil                          |    |  |                 |         |
| 2-3           |               |                 |                  |              | gravel, glass, black char pits, ash minimal soil | SB |  |                 |         |

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

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| Groundwater Data             | Auger Depth _____ Rig _____                    |  <b>TETRA TECH</b> |
| ▼ Depth While Drilling _____ | Rotary Depth _____ Geologist _____             |   |
| ▽ Depth After Drilling _____ | Driller/Co _____                               |   |
|                              | Note: Boring backfilled unless otherwise noted |   |

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| Project: Norwood Residential  | Boring Number: 130 | Page 1 of                                     |
| Site Name: Norwood Landfill   | Boring Location    | Date: Start 1010<br>11/18/2020<br>Finish 1020 |
| Address:<br>577 E. Winona Ave |                    |   |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description             | OVA/PID/FID/OVM | Remarks |
|---------------|---------------|-----------------|------------------|--------------|--|-----------------|---------|
|               |               |                 |                  |              | Auger 0.05 top soil                            |                 | (b) (4) |
|               |               |                 |                  | 0.5-1        | med brown silt dry                             | SS              | ○       |
|               |               |                 |                  | 1-2          | med brown silt dry                             |                 |         |
|               |               |                 |                  | 2-3          | orange brown clay, slight black mottling moist |                 |         |
|               |               |                 |                  | 3-4          | orange brown clay turning grey clay moist      | SB              | ○       |

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

**Groundwater Data**

▼ Depth While Drilling \_\_\_\_\_

∇ Depth After Drilling \_\_\_\_\_

Auger Depth \_\_\_\_\_ Rig \_\_\_\_\_

Rotary Depth \_\_\_\_\_ Geologist \_\_\_\_\_

Driller/Co \_\_\_\_\_

Note: Boring backfilled unless otherwise noted




**TETRA TECH**

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| Project: <u>Norwood</u>        | Boring Number: <u>131</u> | Page <u>1</u> of <u>1</u> |
| Site Name: <u>579 E Winona</u> | Boring Location           | Date: Start <u>1045</u>   |
| Address:                       |                           | Finish <u>1055</u>        |


| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description              |  |    | OVA/PID/FID/OVM |
|---------------|---------------|-----------------|------------------|--------------|---|--|----|-----------------|
|               |               |                 |                  |              | 0-0.5 top soil                                  |  |    | (b) (4)         |
|               |               |                 |                  |              | 0.5-1 top soil / med brown dry mica silty clay  |  | SS |                 |
|               |               |                 |                  |              | 1-2 light to med brown silty clay lightly moist |  |    |                 |
|               |               |                 |                  |              | 2-3 light brown silty clay                      |  | SB |                 |
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Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

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| <p>Groundwater Data</p> <p>▼ Depth While Drilling _____</p> <p>▽ Depth After Drilling _____</p> | <p>Auger Depth _____ Rig _____</p> <p>Rotary Depth _____ Geologist _____</p> <p>Driller/Co _____</p> <p><u>Note: Boring backfilled unless otherwise noted</u></p> |  <p><b>TETRA TECH</b></p> |
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| Project: <u>Norwood</u>            |  | Boring Number: <u>132</u> | Page <u>1</u> of <u>1</u>  |
| Site Name: <u>601 E Winona Ave</u> |  | Boring Location           | Date: <u>11/15/20</u><br>Start <u>1130</u><br>Finish <u>1140</u> |

| Sample Number  | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description    | OVA/PID/FID/OVM | Remarks |
|--|---------------|-----------------|------------------|--------------|---------------------------------------|-----------------|---------|
| 0-5'   | HA            |                 | MH               | 0-1          | Dark brown, slightly moist, silt      | 0               |         |
| 2'-4'  | HA            |                 | ML               | 1-4          | light brown w/ grey clay, moist (tan) | 0               |         |
| <b>(b) (4)</b><br>Collected boring in front yard. Couldn't clear backyard because of dog |               |                 |                  |              |                                       |                 |         |
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| Note: Stratification lines are approximate; in-situ transition between soil types may be gradual. |   |  |
| Groundwater Data<br>▼ Depth While Drilling _____<br>∇ Depth After Drilling _____                  | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist _____<br>Driller/Co _____ | <br><b>TETRA TECH</b> |
| Note: Boring backfilled unless otherwise noted  |   |  |

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| Project: <u>Norwood</u>            | Boring Number: <u>133</u> | Page <u>1</u> of <u>1</u>                                     |
| Site Name: <u>605 E Winona Ave</u> | Boring Location           | Date: <u>11/18/20</u> Start <u>1205</u><br>Finish <u>1215</u> |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description     | OVA/PID/FID/OVM | Remarks |
|---------------|---------------|-----------------|------------------|--------------|--|-----------------|---------|
| 0-0.5         | HA            |                 |                  | 0-1'         | med. brown, slightly moist silt        |                 |         |
| 1-4           | HA            |                 |                  | 2-4'         | light brown (tan), some gray, wet clay |                 |         |
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|               |               |                 |                  |              |  |                 |         |
|               |               |                 |                  |              |  |                 |         |
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|               |               |                 |                  |              |  |                 |         |
|               |               |                 |                  |              |  |                 |         |
|               |               |                 |                  |              |  |                 |         |


(b) (4)

**Note:** Stratification lines are approximate; in-situ transition between soil types may be gradual.

|   |   |   |
|---|---|---|
| <b>Groundwater Data</b><br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____ | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist _____<br>Driller/Co _____ |  <b>TETRA TECH</b> |
| <b>Note:</b> Boring backfilled unless otherwise noted                                   |   |   |

|                                     |                           |                         |
|-------------------------------------|---------------------------|-------------------------|
| Project: <b>Norwood Residential</b> | Boring Number: <b>138</b> | Page 1 of               |
| Site Name:                          | Boring Location           | Date: Start <b>1325</b> |
| Address: <b>514 E Winona Ave</b>    |                           | Finish <b>1335</b>      |

| Sample Number   | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description                          | OVA/PID/FID/OVM | Remarks |
|---|---------------|-----------------|------------------|--------------|---|-----------------|---------|
|   | <b>HA</b>     |                 |                  | <b>2-4'</b>  | <b>Slightly moist / fm. grey / clay<br/>high plasticity</b> |                 |         |
|   |               |                 |                  |              | <b>(b) (4)</b>  |                 |         |
| Note: Stratification lines are approximate; in-situ transition between soil types may be gradual. |               |                 |                  |              |   |                 |         |


|  |  |   |
|--|--|---|
| Groundwater Data<br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____ | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist _____<br>Driller/Co _____<br><b>Note: Boring backfilled unless otherwise noted</b> |  <b>TETRA TECH</b> |
|--|--|---|



|                                     |                           |                              |
|-------------------------------------|---------------------------|------------------------------|
| Project: <u>Norwood Residential</u> | Boring Number: <u>137</u> | Page <u>1</u> of <u>    </u> |
| Site Name:                          | Boring Location           | Date: Start <u>1300</u>      |
| Address: <u>613 E. Winona Ave</u>   |                           | Finish <u>1310</u>           |

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description                            | OVA/PID/FID/OVM | Remarks   |
|---------------|---------------|-----------------|------------------|--------------|---|-----------------|-----------|
|               |               |                 |                  | <u>0-0.5</u> | <u>top soil</u>   |                 | (b) (4)   |
|               |               |                 |                  | <u>0.5-1</u> | <u>light to med brown dry silty soil</u>                      |                 | <u>SS</u> |
|               |               |                 |                  | <u>1-2</u>   | <u>light to med brown silty soil dry</u>                      |                 |           |
|               |               |                 |                  | <u>2-3</u>   | <u>light to med brown silty soil dry / some grey mottling</u> |                 | <u>Sb</u> |


Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

|  |   |   |  |
|--|---|---|--|
| Groundwater Data<br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____ | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist _____<br>Driller/Co _____ |  <b>TETRA TECH</b> |  |
|  | Note: Boring backfilled unless otherwise noted  |   |  |

|  |   |   |
|--|---|---|
| Project: <u>Norwood</u><br>Site Name: <u>615 E Winon 9</u><br>Address: _____ | Boring Number: <u>139</u><br>Boring Location: _____ | Page 1 of _____<br>Date: <u>11/18/20</u><br>Start: <u>210</u><br>Finish: <u>220</u> |
|--|---|---|

| Sample Number | Sample Device | Sample Recovery | Lithology Symbol | Depth (feet) | Detailed Soil and Rock Description             | OVA/PID/FID/OVM | Remarks |
|---------------|---------------|-----------------|------------------|--------------|--|-----------------|---------|
| 0-0.5         | HA            |                 |                  | 0.5          | topsoil wet                                    | 0               |         |
|               |               |                 |                  | 0.5-1        | wet, brown, silty clay                         | 0               | SS      |
|               |               |                 |                  | 1-4          | wet, brown/gray/copper color mix<br>silty clay | 0               | SB      |
|               |               |                 |                  |              | (b) (4)  |                 |         |

|  |   |
|--|---|
| <b>Note:</b> Stratification lines are approximate; in-situ transition between soil types may be gradual. |   |
| Groundwater Data<br>▼ Depth While Drilling _____<br>▽ Depth After Drilling _____                         | Auger Depth _____ Rig _____<br>Rotary Depth _____ Geologist _____<br>Driller/Co _____<br>Note: Boring backfilled unless otherwise noted |

 **TETRA TECH**







**TETRA TECH INC. - GEOPROBE LOG 103X903403004**

|   |                                   |                             |
|---|-----------------------------------|-----------------------------|
| Project Name: <u>Norwood Landfill</u>       |                                   | Project No.:                |
| Project Location: <u>501 E. Winona Ave.</u> |                                   |                             |
| Test Boring No.: <u>SB-103</u>              | Date(s) Drilled:                  | Inspector: <u>EW</u>        |
| Drilling Contractor: <u>ECOI</u>            | Drilling Method: <u>DPT</u>       | Driller:                    |
| Surface Elevation (ft):                     | Groundwater Depth (ft): <u>NM</u> | Total Depth (ft): <u>10</u> |

| Time        | Sample No. | Sample Depth (ft) |           | Recovery (ft) | PID readings |           | Strata Depth (ft) |            | Description of Materials  | Moisture |
|-------------|------------|-------------------|-----------|---------------|--------------|-----------|-------------------|------------|---|----------|
|             |            | From              | To        |               | Depth (ft)   | PPM       | From              | To         |   |          |
|             |            |                   |           | <u>48/60</u>  | <u>0.1</u>   | <u>50</u> | <u>0</u>          | <u>0.1</u> | <u>Topsail, roots</u>   | <u>D</u> |
|             |            |                   |           |               | <u>1</u>     | <u>50</u> | <u>0.1</u>        | <u>2.1</u> | <u>Medium brown + light brown sandy silt, little mica</u>               | <u>D</u> |
|             |            |                   |           |               | <u>2</u>     | <u>60</u> |                   |            |   |          |
| <u>0850</u> | <u>SB</u>  | <u>2</u>          | <u>4</u>  |               | <u>2.5</u>   | <u>50</u> | <u>2.1</u>        | <u>6.8</u> | <u>Medium dense brown, orange brown, + grey silty sand, little mica</u> | <u>D</u> |
|             |            |                   |           | <u>55/60</u>  | <u>5</u>     | <u>50</u> |                   |            |   |          |
|             |            |                   |           |               | <u>6</u>     | <u>70</u> | <u>6.8</u>        | <u>8</u>   | <u>Medium grey + brown silty clay, little mica</u>                      | <u>M</u> |
|             |            |                   |           |               | <u>7</u>     | <u>60</u> |                   |            |   |          |
| <u>0920</u> | <u>DB</u>  | <u>8</u>          | <u>10</u> |               | <u>8</u>     | <u>60</u> | <u>8</u>          | <u>10</u>  | <u>Dense brown, orange brown, + grey silty sand, little mica</u>        | <u>D</u> |
|             |            |                   |           |               | <u>9</u>     | <u>50</u> |                   |            |   |          |
|             |            |                   |           |               | <u>10</u>    | <u>50</u> |                   |            |   |          |

| Notes and comments: <u>Moisture codes: D-dry, M-moist, W-wet, S-saturated</u><br><u>Grab samples collected</u>  | <b>Well Construction (ft)</b><br>Total Depth _____<br>Screen length _____<br>Screen interval _____<br>Cased interval _____<br>Top of sand _____<br>Top of bentonite _____<br>Bottom of bentonite _____<br>Completion _____<br>F- flush mount<br>S- stickup Protected<br>U- stickup Unprotected |      |             |      |             |  |  |  |  |  |  |  |  |
|---|--|------|-------------|------|-------------|--|--|--|--|--|--|--|--|
| Samples Collected<br><table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Designation</th> <th>Time</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> |  | Time | Designation | Time | Designation |  |  |  |  |  |  |  |  |
| Time  | Designation  | Time | Designation |      |             |  |  |  |  |  |  |  |  |
|   |  |      |             |      |             |  |  |  |  |  |  |  |  |
|   |  |      |             |      |             |  |  |  |  |  |  |  |  |

**TETRA TECH INC. - GEOPROBE LOG 103X903403004**

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <b>Norwood Landfill</b>      |                                   | Project No.:                |
| Project Location: <b>517 E. Winona Ave</b> |                                   |                             |
| Test Boring No.: <b>SB-110</b>             | Date(s) Drilled: <b>11-18-20</b>  | Inspector: <b>(b) (4)</b>   |
| Drilling Contractor: <b>ECOT</b>           | Drilling Method: <b>OPT</b>       | Driller:                    |
| Surface Elevation (ft):                    | Groundwater Depth (ft): <b>NM</b> | Total Depth (ft): <b>10</b> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (%) | PID readings |     | Strata Depth (ft) |     | Description of Materials  | Moisture |
|------|------------|-------------------|----|--------------|--------------|-----|-------------------|-----|---|----------|
|      |            | From              | To |              | Depth (ft)   | PPM | From              | To  |   |          |
|      |            |                   |    | 50/60        | 0.1          | 20  | 0                 | 0.1 | Topsoil, roots  | D        |
|      |            |                   |    |              | 1            | 220 | 0.1               | 1.8 | Brown + orange brown med/fin dense silty sand   | D        |
|      |            |                   |    |              | 1.5          | 150 |                   |     | Silty sand  |          |
| 1035 | SB         | 2                 | 4  |              | 2            | 30  | 1.8               | 2.2 | Dense brown silty sand, little stone, brick, + black wood (no odor, possibly organic/marsh) | D        |
|      |            |                   |    |              | 3            | 30  | 2.2               | 5.8 | Dense grey, brown, + orange brown silty sand, trace mica                                    | D        |
|      |            |                   |    | 46/60        | 4            | 30  |                   |     |   |          |
|      |            |                   |    |              | 5            | 20  | 5.8               | 6.4 | Similar to above, moist   | M        |
| 1055 | DB         | 8                 | 10 |              | 6            | 20  | 6.4               | 9.5 | Similar to 2.2 - 5.8  | D        |
|      |            |                   |    |              | 7            | 30  | 9.5               | 10  | Very dense grey, brown, + orange brown silty sand, trace mica                               | D        |
|      |            |                   |    |              | 8            | 30  |                   |     |   |          |
|      |            |                   |    |              | 9            | 40  |                   |     |   |          |
|      |            |                   |    |              | 10           | 20  |                   |     |   |          |

| Notes and comments<br>Moisture codes: D-dry, M-moist, W-wet, S-saturated<br>Grab samples collected<br>Borehole @ 5' VOC: 90 ppb 0% LEL 0 ppm CO<br>Borehole @ 10' VOC: 100 ppb 0% LEL 11 ppm CO  | <b>Well Construction (ft)</b><br>Total Depth<br>Screen length<br>Screen interval<br>Cased interval<br>Top of sand<br>Top of bentonite<br>Bottom of bentonite<br>Completion<br>F- flush mount<br>S- stickup Protected<br>U- stickup Unprotected |             |             |             |  |  |  |  |  |  |  |  |  |
|--|--|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|
| Samples Collected<br><table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Designation</th> <th>Time</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Time   | Designation | Time        | Designation |  |  |  |  |  |  |  |  |  |
| Time   | Designation  | Time        | Designation |             |  |  |  |  |  |  |  |  |  |
|  |  |             |             |             |  |  |  |  |  |  |  |  |  |
|  |  |             |             |             |  |  |  |  |  |  |  |  |  |

**TETRA TECH INC. - GEOPROBE LOG 103X903403004**

|   |                                   |                             |
|---|-----------------------------------|-----------------------------|
| Project Name: <u>Norwood Landfill</u>       |                                   | Project No.:                |
| Project Location: <u>533 E. Winona Ave.</u> |                                   |                             |
| Test Boring No.: <u>SB-115</u>              | Date(s) Drilled: <u>11-18-26</u>  | Inspector: <u>(b) (4)</u>   |
| Drilling Contractor: <u>ECOT</u>            | Drilling Method: <u>OPT</u>       | Driller:                    |
| Surface Elevation (ft):                     | Groundwater Depth (ft): <u>NM</u> | Total Depth (ft): <u>10</u> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (#) | PID readings |     | Strata Depth (ft) |     | Description of Materials             | Moisture |
|------|------------|-------------------|----|--------------|--------------|-----|-------------------|-----|--------------------------------------|----------|
|      |            | From              | To |              | Depth (ft)   | PPM | From              | To  |                                      |          |
|      |            |                   |    | 50/60        | 0.1          | 30  | 0                 | 0.1 | Topsoil, roots                       | D        |
|      |            |                   |    |              | 1            | 40  | 0.1               | 2.5 | Medium dense orange brown silty      | D        |
|      |            |                   |    |              | 2            | 50  |                   |     | Sand, trace mica                     |          |
| 1/45 | SB         | 2                 | 4  |              | 3            | 50  | 2.5               | 6.2 | Medium brown sandy silt, little      | M        |
|      |            |                   |    | 42/60        | 5            | 60  |                   |     | mica                                 |          |
|      |            |                   |    |              | 6            | 50  | 6.2               | 8   | Loose brown + orange brown silty     | W        |
|      |            |                   |    |              | 7            | 50  |                   |     | Sand                                 |          |
| 1:05 | DB         | 8                 | 10 |              | 8            | 50  | 8                 | 9   | Loose brown, light brown, red brown, | D        |
|      |            |                   |    |              | 9            | 40  |                   |     | + orange brown fine to medium sand,  |          |
|      |            |                   |    |              | 10           | 50  |                   |     | 1/4" subangular gravel               |          |
|      |            |                   |    |              |              |     | 9                 | 10  | Medium dense brown, orange brown,    | D        |
|      |            |                   |    |              |              |     |                   |     | + grey micaceous fine sand           |          |

Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated

Grab samples collected  
 Borehole @ 5' VOC: 30 ppb, 0% LGL  
 Borehole @ 10' VOC: 110 ppb, 0% LEL

Samples Collected

| Time | Designation | Time | Designation |
|------|-------------|------|-------------|
|      |             |      |             |
|      |             |      |             |

| Well Construction (ft) |  |
|------------------------|--|
| Total Depth            |  |
| Screen length          |  |
| Screen interval        |  |
| Cased interval         |  |
| Top of sand            |  |
| Top of bentonite       |  |
| Bottom of bentonite    |  |
| Completion             |  |
| F- flush mount         |  |
| S- stickup Protected   |  |
| U- stickup Unprotected |  |



**TETRA TECH INC. - GEOPROBE LOG** 103X903403004

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <b>Norwood Landfill</b>      |                                   | Project No.:                |
| Project Location: <b>544 E. Winona Ave</b> |                                   |                             |
| Test Boring No.: <b>SB-119</b>             | Date(s) Drilled: <b>11-18-20</b>  | Inspector: <b>(b) (4)</b>   |
| Drilling Contractor: <b>ECOF</b>           | Drilling Method: <b>OPT</b>       | Driller:                    |
| Surface Elevation (ft):                    | Groundwater Depth (ft): <b>NM</b> | Total Depth (ft): <b>10</b> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (%) | PID readings |     | Strata Depth (ft) |     | Description of Materials   | Moisture |
|------|------------|-------------------|----|--------------|--------------|-----|-------------------|-----|--|----------|
|      |            | From              | To |              | Depth (ft)   | PPM | From              | To  |  |          |
|      |            |                   |    | 48/60        | 0.1          | 60  | 0                 | 0.2 | Topsoil, roots   | D        |
|      |            |                   |    |              | 1            | 60  | 0.2               | 2.8 | Medium dense micaceous brown + light brown silt/sand   | D        |
|      |            |                   |    |              | 2            | 40  |                   |     |  |          |
| 1255 | SB         | 2                 | 4  |              | 3            | 30  | 2.8               | 3.9 | similar to above, moist  | M        |
|      |            |                   |    |              | 4            | 50  | 3.9               | 4.4 | Medium dense brown + orange brown, fine sand trace mica  | W        |
|      |            |                   |    |              | 5            | 60  | 4.5               | 5   | similar to above, moist  | M        |
|      |            |                   |    | 34/60        | 6            | 50  | 5                 | 7   | Loose micaceous brown fine sand, little gravel   | D        |
|      |            |                   |    |              | 6.5          | 50  |                   |     |  |          |
|      |            |                   |    |              | 7            | 40  | 7                 | 7.7 | Loose micaceous brown + red brown micaceous fine to medium sand, some crushed gravel             | D        |
|      |            |                   |    |              | 7.5          | 50  |                   |     |  |          |
| 1310 | DB         | 8                 | 10 |              | 8            | 30  | 7.7               | 10  | Loose brown, light brown, orange brown, + grey micaceous fine sand (similar to weathered schist) | D        |
|      |            |                   |    |              | 9            | 40  |                   |     |  |          |
|      |            |                   |    |              | 10           | 40  |                   |     |  |          |

Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated

**Grab samples collected**  
**Borehole @ 5': 120 ppb VOC, 0% LEL, 19.5% O<sub>2</sub>**

Samples Collected

| Time | Designation | Time | Designation |
|------|-------------|------|-------------|
|      |             |      |             |
|      |             |      |             |

| Well Construction (ft) |  |
|------------------------|--|
| Total Depth            |  |
| Screen length          |  |
| Screen interval        |  |
| Cased interval         |  |
| Top of sand            |  |
| Top of bentonite       |  |
| Bottom of bentonite    |  |
| Completion             |  |
| F- flush mount         |  |
| S- stickup Protected   |  |
| U- stickup Unprotected |  |

**TETRA TECH INC. - GEOPROBE LOG 103X903403004**

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <u>Norwood Landfill</u>      |                                   | Project No.:                |
| Project Location: <u>549 E. Winona Ave</u> |                                   |                             |
| Test Boring No.: <u>SB-121</u>             | Date(s) Drilled: <u>11-18-20</u>  | Inspector: <u>(b) (4)</u>   |
| Drilling Contractor: <u>ECOI</u>           | Drilling Method: <u>OPT</u>       | Driller:                    |
| Surface Elevation (ft):                    | Groundwater Depth (ft): <u>NM</u> | Total Depth (ft): <u>10</u> |

| Time        | Sample No. | Sample Depth (ft) |           | Recovery #/M | PID readings |           | Strata Depth (ft) |            | Description of Materials  | Moisture |
|-------------|------------|-------------------|-----------|--------------|--------------|-----------|-------------------|------------|---|----------|
|             |            | From              | To        |              | Depth (ft)   | PPM       | From              | To         |   |          |
|             |            |                   |           | <u>43/60</u> | <u>0.1</u>   | <u>50</u> | <u>0</u>          | <u>0.1</u> | <u>Topsoil, roots</u>   | <u>D</u> |
|             |            |                   |           |              | <u>1</u>     | <u>40</u> | <u>0.1</u>        | <u>1.7</u> | <u>Soft micaceous brown sandy silt</u>                                    | <u>M</u> |
| <u>1415</u> | <u>SB</u>  | <u>2</u>          | <u>4</u>  |              | <u>2</u>     | <u>40</u> | <u>1.7</u>        | <u>5</u>   | <u>Stiff micaceous brown + orange brown sandy silt, trace brick truck</u> | <u>D</u> |
|             |            |                   |           |              | <u>3</u>     | <u>50</u> |                   |            |   |          |
|             |            |                   |           | <u>53/60</u> | <u>4</u>     | <u>30</u> | <u>5</u>          | <u>6.3</u> | <u>similar to above, no brick</u>   | <u>D</u> |
| <u>1445</u> | <u>DB</u>  | <u>8</u>          | <u>10</u> |              | <u>5</u>     | <u>40</u> | <u>6.3</u>        | <u>9</u>   | <u>Medium micaceous grey + brown sandy silt</u>                           | <u>M</u> |
|             |            |                   |           |              | <u>6</u>     | <u>40</u> |                   |            |   |          |
|             |            |                   |           |              | <u>7</u>     | <u>70</u> | <u>9</u>          | <u>10</u>  | <u>Dense micaceous brown + grey fine to medium sand, little gravel</u>    | <u>M</u> |
|             |            |                   |           |              | <u>8</u>     | <u>60</u> |                   |            |   |          |
|             |            |                   |           |              | <u>9</u>     | <u>50</u> |                   |            |   |          |
|             |            |                   |           |              | <u>10</u>    | <u>50</u> |                   |            |   |          |

| Notes and comments<br><u>Grab samples collected Duplicate collected 2'-4', time 1400</u><br><u>Borehole @ 5' 120ppb VOC, 18% LEL, 19.7% O2</u><br><u>Borehole @ 10' 80ppb VOC, 0% LEL, 20.9% O2</u>  | Moisture codes: D-dry, M-moist, W-wet, S-saturated<br><b>Well Construction (ft)</b><br>Total Depth _____<br>Screen length _____<br>Screen interval _____<br>Cased interval _____<br>Top of sand _____<br>Top of bentonite _____<br>Bottom of bentonite _____<br>Completion _____<br>F- flush mount<br>S- stickup Protected<br>U- stickup Unprotected |             |             |             |  |  |  |  |  |  |  |  |  |
|--|--|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|
| Samples Collected<br><table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Designation</th> <th>Time</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Time   | Designation | Time        | Designation |  |  |  |  |  |  |  |  |  |
| Time   | Designation  | Time        | Designation |             |  |  |  |  |  |  |  |  |  |
|  |  |             |             |             |  |  |  |  |  |  |  |  |  |
|  |  |             |             |             |  |  |  |  |  |  |  |  |  |

**TETRA TECH INC. - GEOPROBE LOG** 103X903403004

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <b>Norwood Landfill</b>      |                                   | Project No.:                |
| Project Location: <b>558 E. Winona Ave</b> |                                   |                             |
| Test Boring No.: <b>SB-126</b>             | Date(s) Drilled: <b>11-18-20</b>  | Inspector: <b>(b) (4)</b>   |
| Drilling Contractor: <b>ECDI</b>           | Drilling Method: <b>OPT</b>       | Driller:                    |
| Surface Elevation (ft):                    | Groundwater Depth (ft): <b>NM</b> | Total Depth (ft): <b>10</b> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (ft) | PID readings |     | Strata Depth (ft) |     | Description of Materials  | Moisture |
|------|------------|-------------------|----|---------------|--------------|-----|-------------------|-----|---|----------|
|      |            | From              | To |               | Depth (ft)   | PPM | From              | To  |   |          |
|      |            |                   |    | 53/60         | 46           | 0.1 | 0                 | 0.2 | Topsoil, roots  | D        |
|      |            |                   |    |               | 40           | 1   | 0.2               | 2.6 | Medium dense grey, light brown, orange brown, silty sand, little mica             | D        |
|      |            |                   |    |               | 50           | 2   |                   |     |   |          |
| 1520 | SB         | 2                 | 4  |               | 50           | 3   | 2.6               | 6   | Medium dense micaceous brown + red brown fine to medium sand, trace               | M        |
|      |            |                   |    |               | 50           | 4   |                   |     |   |          |
|      |            |                   |    |               | 40           | 5   |                   |     | Subangular gravel near 5'   |          |
|      |            |                   |    | 34/60         | 60           | 6   | 6                 | 7   | Loose red brown + dark grey fine to medium sand, trace gravel                     | W        |
|      |            |                   |    |               | 60           | 6.5 |                   |     |   |          |
|      |            |                   |    |               | 50           | 7   | 7                 | 7.8 | Medium dense brown + orange brown fine to medium sand, some crushed rock + gravel | W        |
|      |            |                   |    |               | 50           | 7.5 |                   |     |   |          |
|      |            |                   |    |               | 60           | 8   |                   |     |   |          |
| 1540 | DB         | 8                 | 10 |               | 70           | 8.5 | 7.8               | 8.3 | Dense orange brown silty sand   | M        |
|      |            |                   |    |               | 70           | 9   | 8.3               | 10  | Soft light grey + orange brown silty clay   | D        |
|      |            |                   |    |               | 60           | 10  |                   |     |   |          |

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
| Notes and comments<br>Grab samples collected<br>Borehole @ 5' 80 ppb VOC<br>Borehole @ 10' 120 ppb VOC |  |  |  | Moisture codes: D-dry, M-moist, W-wet, S-saturated |  |  |  | <b>Well Construction (ft)</b><br>Total Depth<br>Screen length<br>Screen interval<br>Cased interval<br>Top of sand<br>Top of bentonite<br>Bottom of bentonite<br>Completion<br>F- flush mount<br>S- stickup Protected<br>U- stickup Unprotected |  |  |  |
| Samples Collected<br>Time      Designation      Time      Designation                                  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

TETRA TECH INC. - GEOPROBE LOG 103X903403004

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <u>Norwood Landfill</u>      |                                   | Project No.:                |
| Project Location: <u>569 E. Winona Ave</u> |                                   |                             |
| Test Boring No.: <u>SB-29</u>              | Date(s) Drilled: <u>11-9-20</u>   | Inspector: <u>(b) (4)</u>   |
| Drilling Contractor: <u>ECDI</u>           | Drilling Method: <u>DPT</u>       | Driller:                    |
| Surface Elevation (ft):                    | Groundwater Depth (ft): <u>NM</u> | Total Depth (ft): <u>10</u> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (%) | PID readings |     | Strata Depth (ft) |     | Description of Materials  | Moisture |
|------|------------|-------------------|----|--------------|--------------|-----|-------------------|-----|---|----------|
|      |            | From              | To |              | Depth (ft)   | PPM | From              | To  |   |          |
|      |            |                   |    | 60/100       | 0.1          | 30  | 0                 | 0.1 | Topsoil, roots  | D        |
|      |            |                   |    |              | 1            | 30  | 0.1               | 1.4 | Medium dense micaceous orange brown silt sand                                   | M        |
|      |            |                   |    |              | 1.5          | 20  |                   |     |   |          |
|      | 0825 SB    | 2                 | 4  |              | 2            | 20  | 1.4               | 5   | Dense micaceous brown + orange brown silt sand                                  | D        |
|      |            |                   |    |              | 3            | 20  |                   |     |   |          |
|      |            |                   |    |              | 4            | 30  | 5                 | 8   | similar to above with light grey color  | D        |
|      | 0845 DB    | 8                 | 10 | 50/60        | 5            | 30  | 8                 | 9   | Dense micaceous brown + orange brown fine to coarse sand some subangular gravel | D        |
|      |            |                   |    |              | 6            | 30  |                   |     |   |          |
|      |            |                   |    |              | 7            | 20  |                   |     |   |          |
|      |            |                   |    |              | 8            | 30  | 9                 | 9.9 | similar to above, wet   | W        |
|      |            |                   |    |              | 9            | 30  | 9.9               | 10  | Stiff light grey silt clay  | D        |
|      |            |                   |    |              | 10           | 40  |                   |     |   |          |

|                     |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
|---------------------|---|--|-------------|--|---------------|--|-----------------|--|----------------|--|-------------|--|------------------|--|---------------------|--|------------|
| Notes and comments  | Moisture codes: D-dry, M-moist, W-wet, S-saturated  | <b>Well Construction (ft)</b>  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
|                     | <p>Gas samples collected</p> <p>Borehole @ 5' 80 ppb VOC, 0% LEL, 20.9% O<sub>2</sub>, 0 ppm CO</p> <p>Borehole @ 10' 120 ppb VOC, 0% LEL, 20.2% O<sub>2</sub>, 43 ppm CO</p> | <table border="1"> <tr><td>Total Depth</td><td></td></tr> <tr><td>Screen length</td><td></td></tr> <tr><td>Screen interval</td><td></td></tr> <tr><td>Cased interval</td><td></td></tr> <tr><td>Top of sand</td><td></td></tr> <tr><td>Top of bentonite</td><td></td></tr> <tr><td>Bottom of bentonite</td><td></td></tr> <tr><td>Completion</td><td></td></tr> </table> | Total Depth |  | Screen length |  | Screen interval |  | Cased interval |  | Top of sand |  | Top of bentonite |  | Bottom of bentonite |  | Completion |
| Total Depth         |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Screen length       |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Screen interval     |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Cased interval      |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Top of sand         |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Top of bentonite    |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Bottom of bentonite |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Completion          |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Samples Collected   |   | F- flush mount<br>S- stickup Protected<br>U- stickup Unprotected   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
| Time                | Designation   | Time   | Designation |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |
|                     |   |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |

**TETRA TECH INC. - GEOPROBE LOG** 103X903403004

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <u>Norwood Landfill</u>      |                                   | Project No.:                |
| Project Location: <u>611 E. Winona Ave</u> |                                   |                             |
| Test Boring No.: <u>SB-136</u>             | Date(s) Drilled: <u>11-19-20</u>  | Inspector: <u>(b) (4)</u>   |
| Drilling Contractor: <u>ECOI</u>           | Drilling Method: <u>DPT</u>       | Driller:                    |
| Surface Elevation (ft):                    | Groundwater Depth (ft): <u>NM</u> | Total Depth (ft): <u>10</u> |

| Time        | Sample No. | Sample Depth (ft) |           | Recovery #%  | PID readings |           | Strata Depth (ft) |            | Description of Materials   | Moisture |
|-------------|------------|-------------------|-----------|--------------|--------------|-----------|-------------------|------------|--|----------|
|             |            | From              | To        |              | Depth (ft)   | PPB       | From              | To         |  |          |
|             |            |                   |           | <u>53/60</u> | <u>0.1</u>   | <u>40</u> | <u>0</u>          | <u>0.1</u> | <u>Topsoil, roots</u>  | <u>D</u> |
| <u>0925</u> | <u>SB</u>  | <u>2</u>          | <u>4</u>  |              | <u>1</u>     | <u>50</u> | <u>0.1</u>        | <u>32</u>  | <u>Medium dense brown + orange brown micaceous silty sand</u>                    | <u>D</u> |
|             |            |                   |           |              | <u>2</u>     | <u>40</u> |                   |            |  |          |
|             |            |                   |           |              | <u>3</u>     | <u>30</u> | <u>3.2</u>        | <u>7.2</u> | <u>Similar to above, moist</u>   | <u>M</u> |
|             |            |                   |           |              | <u>4</u>     | <u>30</u> | <u>6.2</u>        | <u>7.8</u> | <u>Similar to above, wet</u>   | <u>W</u> |
| <u>0940</u> | <u>DB</u>  | <u>8</u>          | <u>10</u> |              | <u>5</u>     | <u>30</u> | <u>7.8</u>        | <u>10</u>  | <u>Loose micaceous fine to medium sand, little silt, + trace gravel near 10'</u> | <u>M</u> |
|             |            |                   |           |              | <u>6</u>     | <u>40</u> |                   |            |  |          |
|             |            |                   |           |              | <u>7</u>     | <u>40</u> |                   |            |  |          |
|             |            |                   |           |              | <u>8</u>     | <u>50</u> |                   |            |  |          |
|             |            |                   |           |              | <u>9</u>     | <u>40</u> |                   |            |  |          |
|             |            |                   |           |              | <u>10</u>    | <u>40</u> |                   |            |  |          |

Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated

Grab samples collected  
Barhole @ 5' 80 ppb VOC, 0% LEL, 19.2% O2  
Barhole @ 10' 160 ppb VOC, 0% LEL, 20.8% O2

Samples Collected

| Time | Designation | Time | Designation |
|------|-------------|------|-------------|
|      |             |      |             |
|      |             |      |             |

**Well Construction (ft)**

|                        |  |
|------------------------|--|
| Total Depth            |  |
| Screen length          |  |
| Screen interval        |  |
| Cased interval         |  |
| Top of sand            |  |
| Top of bentonite       |  |
| Bottom of bentonite    |  |
| Completion             |  |
| F- flush mount         |  |
| S- stickup Protected   |  |
| U- stickup Unprotected |  |

**TETRA TECH INC. - GEOPROBE LOG** 103X903403004

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <b>Norwood Landfill</b>  |                                   | Project No.:                |
| Project Location: <b>535 Essex Rd.</b> |                                   |                             |
| Test Boring No.: <b>SB-146</b>         | Date(s) Drilled: <b>11-19-20</b>  | Inspector: <b>(b) (4)</b>   |
| Drilling Contractor: <b>ECOI</b>       | Drilling Method: <b>OPT</b>       | Driller:                    |
| Surface Elevation (ft):                | Groundwater Depth (ft): <b>NM</b> | Total Depth (ft): <b>10</b> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery #/ft | PID readings |     | Strata Depth (ft) |     | Description of Materials   | Moisture |
|------|------------|-------------------|----|---------------|--------------|-----|-------------------|-----|--|----------|
|      |            | From              | To |               | Depth (ft)   | PPM | From              | To  |  |          |
|      |            |                   |    | 53/60         | 0.2          | 40  | 0                 | 0.2 | Topsoil, roots   | D        |
| 1020 | SB         | 2                 | 4  |               | 1            | 40  | 0.2               | 6.8 | Medium dense, micaceous orange brown, brown, & light grey silt sand                | D        |
|      |            |                   |    | 50/60         | 2            | 60  |                   |     |  |          |
| 1035 | DB         | 8                 | 10 |               | 3            | 50  | 6.8               | 9.3 | Dense micaceous light grey silt sand   | D        |
|      |            |                   |    |               | 4            | 50  | 9.3               | 10  | Medium dense micaceous red brown & brown fine to medium sand, little silt & gravel | D        |
|      |            |                   |    |               | 5            | 40  |                   |     |  |          |
|      |            |                   |    |               | 6            | 40  |                   |     |  |          |
|      |            |                   |    |               | 7            | 30  |                   |     |  |          |
|      |            |                   |    |               | 8            | 40  |                   |     |  |          |
|      |            |                   |    |               | 9            | 50  |                   |     |  |          |
|      |            |                   |    |               | 10           | 30  |                   |     |  |          |

| <p>Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated</p> <p>Grab samples collected Duplicate 8'-10' time 0800</p> <p>Borehole @ 5' 60 ppb VOC, 0% LEL, 20.9% O<sub>2</sub>, 0 ppm CO</p> <p>Borehole @ 10' 290 ppb VOC, 0% LEL, 8.4% O<sub>2</sub>, 13 ppm CO</p>                                     | <p><b>Well Construction (ft)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Total Depth</td><td></td></tr> <tr><td>Screen length</td><td></td></tr> <tr><td>Screen interval</td><td></td></tr> <tr><td>Cased interval</td><td></td></tr> <tr><td>Top of sand</td><td></td></tr> <tr><td>Top of bentonite</td><td></td></tr> <tr><td>Bottom of bentonite</td><td></td></tr> <tr><td>Completion</td><td></td></tr> </table> <p>F- flush mount<br/>S- stickup Protected<br/>U- stickup Unprotected</p> | Total Depth |             | Screen length |             | Screen interval |  | Cased interval |  | Top of sand |  | Top of bentonite |  | Bottom of bentonite |  | Completion |  |
|--|--|-------------|-------------|---------------|-------------|-----------------|--|----------------|--|-------------|--|------------------|--|---------------------|--|------------|--|
| Total Depth  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Screen length  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Screen interval  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Cased interval   |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Top of sand  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Top of bentonite   |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Bottom of bentonite  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Completion   |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| <p>Samples Collected</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Designation</th> <th>Time</th> <th>Designation</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> |  | Time        | Designation | Time          | Designation |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Time   | Designation  | Time        | Designation |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
|  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |
|  |  |             |             |               |             |                 |  |                |  |             |  |                  |  |                     |  |            |  |

**TETRA TECH INC. - GEOPROBE LOG** 103X903403004

|                                       |                                   |                             |
|---------------------------------------|-----------------------------------|-----------------------------|
| Project Name: <u>Norwood Landfill</u> |                                   | Project No.:                |
| Project Location: <u>S21 Essex Rd</u> |                                   |                             |
| Test Boring No.: <u>SB-143</u>        | Date(s) Drilled: <u>11-19-20</u>  | Inspector: <u>(b) (4)</u>   |
| Drilling Contractor: <u>ECO2</u>      | Drilling Method: <u>OPT</u>       | Driller:                    |
| Surface Elevation (ft):               | Groundwater Depth (ft): <u>NM</u> | Total Depth (ft): <u>10</u> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (ft) | PID readings |     | Strata Depth (ft) |     | Description of Materials   | Moisture |
|------|------------|-------------------|----|---------------|--------------|-----|-------------------|-----|--|----------|
|      |            | From              | To |               | Depth (ft)   | PPM | From              | To  |  |          |
|      |            |                   |    | 50/60         | 0.1          | 40  | 0                 | 0.1 | Topsoil, roots   | D        |
| 1140 | SB         | 2                 | 4  |               | 1            | 40  | 0.1               | 3.4 | Medium dense orange brown + light grey micaceous silt sand   | D        |
|      |            |                   |    |               | 2            | 30  |                   |     |  |          |
|      |            |                   |    |               | 3            | 50  | 3.4               | 5   | Medium dense micaceous grey-brown silt sand, trace small pieces of coal/slag near 4', organic wood/root (marsh?) near 5' | D        |
|      |            |                   |    | 60/60         | 4            | 50  |                   |     |  |          |
|      |            |                   |    |               | 5            | 60  |                   |     |  |          |
|      |            |                   |    |               | 6            | 50  |                   |     |  |          |
| 1155 | DB         | 8                 | 10 |               | 7            | 50  | 5                 | 10  | Medium dense micaceous orange brown + grey silt sand   | D        |
|      |            |                   |    |               | 8            | 50  |                   |     |  |          |
|      |            |                   |    |               | 9            | 40  |                   |     |  |          |
|      |            |                   |    |               | 10           | 40  |                   |     |  |          |

Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated

Grab samples collected  
Borehole @ 5' 160 ppb VOC, 0% LEL, 20.9% O<sub>2</sub>  
Borehole @ 10' 130 ppb VOC, 0% LEL, 19.5% O<sub>2</sub>

| Samples Collected |             |      |             |
|-------------------|-------------|------|-------------|
| Time              | Designation | Time | Designation |
|                   |             |      |             |
|                   |             |      |             |

| Well Construction (ft) |  |
|------------------------|--|
| Total Depth            |  |
| Screen length          |  |
| Screen interval        |  |
| Cased interval         |  |
| Top of sand            |  |
| Top of bentonite       |  |
| Bottom of bentonite    |  |
| Completion             |  |
| F- flush mount         |  |
| S- stickup Protected   |  |
| U- stickup Unprotected |  |

**TETRA TECH INC. - GEOPROBE LOG 103X903403004**

|  |                                   |                             |
|--|-----------------------------------|-----------------------------|
| Project Name: <b>Norwood Landfill</b>  |                                   | Project No.:                |
| Project Location: <b>543 Essex Rd.</b> |                                   |                             |
| Test Boring No.: <b>SB-147</b>         | Date(s) Drilled: <b>11-19-20</b>  | Inspector: <b>(b) (4)</b>   |
| Drilling Contractor: <b>ECOJ</b>       | Drilling Method: <b>OPT</b>       | Driller:                    |
| Surface Elevation (ft):                | Groundwater Depth (ft): <b>NM</b> | Total Depth (ft): <b>10</b> |

| Time  | Sample No. | Sample Depth (ft) |    | Recovery (#ft) | PID readings |     | Strata Depth (ft) |     | Description of Materials  | Moisture |
|-------|------------|-------------------|----|----------------|--------------|-----|-------------------|-----|---|----------|
|       |            | From              | To |                | Depth (ft)   | PPM | From              | To  |   |          |
|       |            |                   |    | 40/60          | 0.1          | 30  | 0                 | 0.1 | Topsail, cuts   | D        |
| 12:40 | SB 2       | 4                 |    |                | 1            | 40  | 0.1               | 3.8 | Medium dense brown + orange brown micaceous silty sand  | D        |
|       |            |                   |    |                | 2            | 40  |                   |     |   |          |
|       |            |                   |    |                | 3            | 30  | 3.8               | 5   | Similar to above, dense   | D        |
| 12:55 | DB 8       | 10                |    | 40/60          | 4            | 30  | 5                 | 10  | Medium dense brown, light brown, + light grey micaceous fine to medium sand, gravel lens 9-9.1. | D        |
|       |            |                   |    |                | 5            | 50  |                   |     |   |          |
|       |            |                   |    |                | 6            | 40  |                   |     |   |          |
|       |            |                   |    |                | 7            | 40  |                   |     |   |          |
|       |            |                   |    |                | 8            | 50  |                   |     |   |          |
|       |            |                   |    |                | 9            | 50  |                   |     |   |          |
|       |            |                   |    |                | 10           | 60  |                   |     |   |          |

| <p>Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated</p> <p><b>Grab samples collected.</b><br/> <b>Borehole @ 5' 180 ppb VOC, 0% LEL, 19.7% O<sub>2</sub>, 0 ppm CO</b><br/> <b>Borehole @ 10' 670 ppb VOC, 4% LEL, 98 ppm CO, 11.5% O<sub>2</sub></b></p> <p>Samples Collected</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Designation</th> <th>Time</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Time        | Designation | Time        | Designation |  |  |  |  |  |  |  |  | <p><b>Well Construction (ft)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Total Depth</td><td> </td></tr> <tr><td>Screen length</td><td> </td></tr> <tr><td>Screen interval</td><td> </td></tr> <tr><td>Cased interval</td><td> </td></tr> <tr><td>Top of sand</td><td> </td></tr> <tr><td>Top of bentonite</td><td> </td></tr> <tr><td>Bottom of bentonite</td><td> </td></tr> <tr><td>Completion</td><td> </td></tr> </table> <p>F- flush mount<br/> S- stickup Protected<br/> U- stickup Unprotected</p> | Total Depth |  | Screen length |  | Screen interval |  | Cased interval |  | Top of sand |  | Top of bentonite |  | Bottom of bentonite |  | Completion |  |
|--|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|-------------|--|---------------|--|-----------------|--|----------------|--|-------------|--|------------------|--|---------------------|--|------------|--|
| Time   | Designation | Time        | Designation |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
|  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
|  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Total Depth  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Screen length  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Screen interval  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Cased interval   |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Top of sand  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Top of bentonite   |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Bottom of bentonite  |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Completion   |             |             |             |             |  |  |  |  |  |  |  |  |  |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |



**TETRA TECH INC. - GEOPROBE LOG** 103X903403004

|                                       |                                   |                             |
|---------------------------------------|-----------------------------------|-----------------------------|
| Project Name: <b>Norwood Landfill</b> |                                   | Project No.:                |
| Project Location: <b>26 Martin Ln</b> |                                   |                             |
| Test Boring No.: <b>SB-156</b>        | Date(s) Drilled: <b>11-19-20</b>  | Inspector: <b>(b) (4)</b>   |
| Drilling Contractor: <b>ECDI</b>      | Drilling Method: <b>OPT</b>       | Driller:                    |
| Surface Elevation (ft):               | Groundwater Depth (ft): <b>NM</b> | Total Depth (ft): <b>10</b> |

| Time | Sample No. | Sample Depth (ft) |    | Recovery (ft) | PID readings |     | Strata Depth (ft) |     | Description of Materials                | Moisture |
|------|------------|-------------------|----|---------------|--------------|-----|-------------------|-----|---|----------|
|      |            | From              | To |               | Depth (ft)   | PPH | From              | To  |   |          |
|      |            |                   |    | 60            | 0.1          | 50  | 0                 | 0.1 | Topsoil, roots                          | D        |
|      | B45 SB     | 2                 | 4  |               | 1            | 50  | 0.1               | 8   | Dense light grey, brown, + orange brown | D        |
|      |            |                   |    |               | 2            | 40  |                   | 7.8 | Silty sand, trace mica                  |          |
|      | B40 DB     | 8                 | 10 | 60            | 3            | 40  | 7.8               | 10  | Medium micaceous brown, light           | D        |
|      |            |                   |    |               | 4            | 40  |                   |     | grey, + orange brown silt, some sand    |          |
|      |            |                   |    |               | 5            | 40  |                   |     |   |          |
|      |            |                   |    |               | 6            | 50  |                   |     |   |          |
|      |            |                   |    |               | 7            | 30  |                   |     |   |          |
|      |            |                   |    |               | 8            | 30  |                   |     |   |          |
|      |            |                   |    |               | 9            | 30  |                   |     |   |          |
|      |            |                   |    |               | 10           | 40  |                   |     |   |          |

Notes and comments: Moisture codes: D-dry, M-moist, W-wet, S-saturated

Grab samples collected. MS/MSD collected 8'-10'  
 Borehole @ 5' 190 ppb VOC, 0% LEL, 23 ppm CO  
 Borehole @ 10' 120 ppb VOC, 0% LEL, 12 ppm CO

Samples Collected

| Time | Designation | Time | Designation |
|------|-------------|------|-------------|
|      |             |      |             |
|      |             |      |             |

**Well Construction (ft)**

|                     |  |
|---------------------|--|
| Total Depth         |  |
| Screen length       |  |
| Screen interval     |  |
| Cased interval      |  |
| Top of sand         |  |
| Top of bentonite    |  |
| Bottom of bentonite |  |
| Completion          |  |

F- flush mount  
 S- stickup Protected  
 U- stickup Unprotected

**TETRA TECH INC. - GEOPROBE LOG 103X903403004**

|   |  |  |                                   |  |                               |
|---|--|--|-----------------------------------|--|-------------------------------|
| Project Name: <b>Norwood Landfill</b>   |  |  | Project No.:                      |  |                               |
| Project Location: <b>658 Seneca Ave</b> |  |  |                                   |  |                               |
| Test Boring No.: <b>SB-163</b>          |  |  | Date(s) Drilled: <b>11-19-20</b>  |  | Inspector: <b>DEB (b) (4)</b> |
| Drilling Contractor: <b>ECDI</b>        |  |  | Drilling Method: <b>DPT</b>       |  | Driller:                      |
| Surface Elevation (ft):                 |  |  | Groundwater Depth (ft): <b>NM</b> |  | Total Depth (ft): <b>10</b>   |

| Time | Sample No. | Sample Depth (ft) |    | Recovery<br>Rate | PID readings |     | Strata Depth (ft) |     | Description of Materials   | Moisture |
|------|------------|-------------------|----|------------------|--------------|-----|-------------------|-----|--|----------|
|      |            | From              | To |                  | Depth (ft)   | PPM | From              | To  |  |          |
|      |            |                   |    | 46/60            | 0.2          | 40  | 0                 | 0.4 | Topsoil, roots   | D        |
|      |            |                   |    |                  | 1            | 40  | 0.4               | 1.7 | Dense light brown & light grey sandy silt                                    | D        |
|      |            |                   |    |                  | 1.5          | 60  |                   |     |  |          |
|      |            |                   |    |                  | 2            | 60  | 1.7               | 2.1 | Very loose brown silty sand, little brick, rock, & possible asphalt          | D        |
|      |            |                   |    |                  | 3            | 50  |                   |     |  |          |
| 1440 | SB         | 2                 | 4  |                  | 4            | 50  | 2.1               | 4   | Medium dense micaceous brown & orange brown silty sand                       | D        |
|      |            |                   |    |                  | 4.5          | 40  |                   |     |  |          |
|      |            |                   |    |                  | 5            | 40  | 4                 | 4.3 | Weathered schist   | D        |
|      |            |                   |    | 46/60            | 6            | 60  | 4.3               | 5   | Very loose micaceous brown & orange brown fine sand little wood/roots & rock | D        |
|      |            |                   |    |                  | 7            | 50  |                   |     |  |          |
|      |            |                   |    |                  | 8            | 60  |                   |     |  |          |
|      |            |                   |    |                  | 9            | 70  | 5                 | 8.2 | Similar soil to above, Trace brick, rock, & several pieces of white ceramic  | D        |
|      |            |                   |    |                  | 10           | 70  |                   |     |  |          |
| 1505 | OB         | 8                 | 10 |                  |              |     | 8.2               | 10  | Medium micaceous brown, orange brown, & light grey clayey silt               | D        |

| <p>Notes and comments</p> <p>Grab samples collected. <span style="float: right;">open CO</span></p> <p>Borehole @ 5' 3.7 ppm VOC, 14.9% O<sub>2</sub>, 0% LEL</p> <p>Borehole @ 10' 1.8 ppm VOC, 11.5% O<sub>2</sub>, 0% LEL, 0 ppm CO</p> <p>Samples Collected</p> <table style="width:100%; border-collapse: collapse;"> <tr> <th>Time</th> <th>Designation</th> <th>Time</th> <th>Designation</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | Time        | Designation | Time        | Designation |  |  |  |  |  |  |  |  | <p>Moisture codes: D-dry, M-moist, W-wet, S-saturated</p> <p><b>Well Construction (ft)</b></p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Total Depth</td><td> </td></tr> <tr><td>Screen length</td><td> </td></tr> <tr><td>Screen interval</td><td> </td></tr> <tr><td>Cased interval</td><td> </td></tr> <tr><td>Top of sand</td><td> </td></tr> <tr><td>Top of bentonite</td><td> </td></tr> <tr><td>Bottom of bentonite</td><td> </td></tr> <tr><td>Completion</td><td> </td></tr> </table> <p>F- flush mount<br/>S- stickup Protected<br/>U- stickup Unprotected</p> | Total Depth |  | Screen length |  | Screen interval |  | Cased interval |  | Top of sand |  | Top of bentonite |  | Bottom of bentonite |  | Completion |  |
|--|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|---|-------------|--|---------------|--|-----------------|--|----------------|--|-------------|--|------------------|--|---------------------|--|------------|--|
| Time   | Designation | Time        | Designation |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
|  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
|  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Total Depth  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Screen length  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Screen interval  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Cased interval   |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Top of sand  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Top of bentonite   |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Bottom of bentonite  |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |
| Completion   |             |             |             |             |  |  |  |  |  |  |  |  |   |             |  |               |  |                 |  |                |  |             |  |                  |  |                     |  |            |  |

## **APPENDIX C**

### **MONITORING WELL DEVELOPMENT AND SAMPLE LOGS**



### WELL DEVELOPMENT DATA SHEET

BORING NO. 55/56-21

WELL NO. GWD1

Project Norwood Landfill  
 Project No. 103X 96340 3004  
 Date(s) of Installation 09/28/2020  
 Date(s) of Development 09/30/2020  
 Personnel/Company Tetra Tech

Casing Diameter/Type PVC 3/4"  
 Borehole Diameter \_\_\_\_\_  
 Screened Interval(s) 10-20  
 Total Length of Well Casing 10  
 Measured Total Depth (TOC) Initial 19.95 ft  
 Final 19.95

Type of Rig Used \_\_\_\_\_

Initial Depth to Water (TOC) 12.53 ft Date 09/30 Time 1145  
 Stabilized Depth to Water (TOC) 12.85 Date 09/30 Time 1240

#### DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) \_\_\_\_\_  
 Surge Block \_\_\_\_\_  
 Bailing \_\_\_\_\_  
 Pumping \_\_\_\_\_  
 Other \_\_\_\_\_

#### PURGE VOLUME CALCULATION

Casing Volume: \_\_\_\_\_ Ft. of water  
 x \_\_\_\_\_ Gallons/Foot  
 = \_\_\_\_\_ Gallons per Single Casing Volume  
 Sand Pack Volume: \_\_\_\_\_ Ft. of Saturated Sand Pack  
 x \_\_\_\_\_ Gallons/Foot (borehole diameter)  
 = \_\_\_\_\_ Gallons (in borehole)  
 = \_\_\_\_\_ Gallons of Casing-Volume  
 = \_\_\_\_\_ x 0.3 (Assuming porosity = 30%)  
 = \_\_\_\_\_ Gallons Within Sand Pack  
 Single Purge Volume: \_\_\_\_\_ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)  
 Minimum Purge Volume: \_\_\_\_\_ Gallons  
 Actual Purge Volume: \_\_\_\_\_ Gallons  
 Volume Measured by: \_\_\_\_\_  
 Rate of Development \_\_\_\_\_ Gallons/Minute (Hour, Day)  
 Pumping Rate/Depth \_\_\_\_\_ @ \_\_\_\_\_ Ft. (Below Grd.)  
 Immiscible Phases Present: Y N Thickness \_\_\_\_\_

#### FLUIDS ADDED

Lost Drilling Fluid: \_\_\_\_\_ Gallons  
 Lost Purge Water: \_\_\_\_\_ Gallons  
 Water During Installation: \_\_\_\_\_ Gallons  
 Total Fluids Added: \_\_\_\_\_ Gallons  
 Source of Added Water: \_\_\_\_\_  
 Ground Water Quality Parameters of Added Water Measured: Y N  
 Sample Collected of Added Water: Y N  
 Sample Designation of Added Water: \_\_\_\_\_

#### INSTRUMENT CALIBRATION

pH Meter: \_\_\_\_\_ Spec. Conductance Meter: \_\_\_\_\_  
 pH 4.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Standard \_\_\_\_\_ μmhos/cm @ 25°C  
 pH 7.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Reading \_\_\_\_\_ μmhos/cm @ \_\_\_\_\_ °C  
 pH 10.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Turbidity Meter: \_\_\_\_\_  
 Dissolved Oxygen Meter: \_\_\_\_\_ Other: \_\_\_\_\_

| Total Volume Discharged | Rate of Discharge | Time | Temp  | pH   | Specific Conductance | Turbidity or (O.O) | Clarity, Odor, PID Readings, Other: |
|-------------------------|-------------------|------|-------|------|----------------------|--------------------|-------------------------------------|
| 200                     |                   | 1157 | 17.57 | 7.10 | 0.768                | 2.34               | clear, foggy                        |
| 200                     |                   | 1202 | 17.42 | 6.62 | 0.759                | 0.93               | clear                               |
| 200                     |                   | 1207 | 17.43 | 6.53 | 0.750                | 0.62               | clear                               |
| 200                     |                   | 1212 | 18.28 | 6.41 | 0.707                | 6.8                | clear                               |
| 200                     |                   | 1217 | 18.81 | 6.32 | 0.700                | 5.94               | clear                               |
| 200                     |                   | 1222 | 18.82 | 6.12 | 0.682                | 0.83               | clear                               |
| 200                     |                   | 1228 | 19.10 | 6.19 | 0.675                | 0.33               | clear                               |
| 200                     |                   | 1235 | 20.30 | 6.17 | 0.678                | 0.37               | clear                               |

Development Completed at \_\_\_\_\_ Gallons Discharged. Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Criteria: \_\_\_\_\_ Personnel: \_\_\_\_\_

\* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



### WELL DEVELOPMENT DATA SHEET

BORING NO. SS/SB-22

WELL NO. G1W02

Project Normood Landfill  
 Project No. 103X90340200Y  
 Date(s) of Installation 09/28/2020  
 Date(s) of Development 09/30/2020  
 Personnel/Company Terra Tech

Casing Diameter/Type PVC 3/4"  
 Borehole Diameter \_\_\_\_\_  
 Screened Interval(s) 4-14  
 Total Length of Well Casing 4  
 Measured Total Depth (TOC) Initial 13.95ft  
 Final 13.95ft

Type of Rig Used \_\_\_\_\_

Initial Depth to Water (TOC) 13.95ms Dry Date 09/30/20 Time 1525  
 Stabilized Depth to Water (TOC) Dry Date 09/30/20 Time 1525

**DEVELOPMENT**  
**TECHNIQUE(S)**      **EQUIPMENT TYPE/CAPACITY**

\_\_\_ Jetting (Airlift) \_\_\_\_\_  
 \_\_\_ Surge Block \_\_\_\_\_  
 \_\_\_ Bailing \_\_\_\_\_  
 Pumping \_\_\_\_\_  
 \_\_\_ Other \_\_\_\_\_

**PURGE VOLUME CALCULATION**

Casing Volume: \_\_\_\_\_ Ft. of water  
 x \_\_\_\_\_ Gallons/Foot  
 = \_\_\_\_\_ Gallons per Single Casing Volume  
 Sand Pack Volume: \_\_\_\_\_ Ft. of Saturated Sand Pack  
 x \_\_\_\_\_ Gallons/Foot (borehole diameter)  
 = \_\_\_\_\_ Gallons (in borehole)  
 - \_\_\_\_\_ Gallons of Casing Volume  
 = \_\_\_\_\_ x 0.3 (Assuming porosity = 30%)  
 = \_\_\_\_\_ Gallons Within Sand Pack

**FLUIDS ADDED**

Lost Drilling Fluid: \_\_\_\_\_ Gallons  
 Lost Purge Water: \_\_\_\_\_ Gallons  
 Water During Installation: \_\_\_\_\_ Gallons  
 Total Fluids Added: \_\_\_\_\_ Gallons  
 Source of Added Water: \_\_\_\_\_  
 Ground Water Quality Parameters of Added Water Measured:    Y    N  
 Sample Collected of Added Water:    Y    N  
 Sample Designation of Added Water: \_\_\_\_\_

Single Purge Volume: \_\_\_\_\_ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)  
 Minimum Purge Volume: \_\_\_\_\_ Gallons  
 Actual Purge Volume: \_\_\_\_\_ Gallons  
 Volume Measured by: \_\_\_\_\_  
 Rate of Development \_\_\_\_\_ Gallons/Minute (Hour, Day)  
 Pumping Rate/Depth \_\_\_\_\_ @ \_\_\_\_\_ Ft. (Below Grd.)  
 Immiscible Phases Present:    Y    N    Thickness \_\_\_\_\_

#### INSTRUMENT CALIBRATION

pH Meter: \_\_\_\_\_ Spec. Conductance Meter: \_\_\_\_\_  
 pH 4.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C      Standard \_\_\_\_\_ μmhos/cm @ 25°C  
 pH 7.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C      Reading \_\_\_\_\_ μmhos/cm @ \_\_\_\_\_ °C  
 pH 10.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C      Turbidity Meter: \_\_\_\_\_  
 Dissolved Oxygen Meter: \_\_\_\_\_ Other: \_\_\_\_\_

| Total Volume Discharged | Rate of Discharge | Time        | Temp | pH | Specific Conductance | Turbidity of D.O. | Clarity, Odor, PID Readings, Other: |
|-------------------------|-------------------|-------------|------|----|----------------------|-------------------|-------------------------------------|
| <u>Dry</u>              |                   | <u>1525</u> |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |

Development Completed at \_\_\_\_\_ Gallons Discharged. Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Criteria: \_\_\_\_\_ Personnel: \_\_\_\_\_

\* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



### WELL DEVELOPMENT DATA SHEET

BORING NO. 55/50-25

WELL NO. G1W03

Project Norwood Landfill  
 Project No. 1034903403004  
 Date(s) of Installation 09/28/2020  
 Date(s) of Development 09/30/2020  
 Personnel/Company TETRA TECH  
 Type of Rig Used \_\_\_\_\_

Casing Diameter/Type PVC 3/4"  
 Borehole Diameter \_\_\_\_\_  
 Screened Interval(s) 4-9  
 Total Length of Well Casing 4  
 Measured Total Depth (TOC) Initial 8.87 ft  
 Final 8.85 ft  
 Initial Depth to Water (TOC) 4.25 Date 09/30/2020 Time 1313  
 Stabilized Depth to Water (TOC) 5.40 Date 09/30/20 Time 1341

#### DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY  
 \_\_\_\_\_ Jetting (Airlift) \_\_\_\_\_  
 \_\_\_\_\_ Surge Block \_\_\_\_\_  
 \_\_\_\_\_ Bailing \_\_\_\_\_  
 Pumping \_\_\_\_\_  
 \_\_\_\_\_ Other \_\_\_\_\_

#### PURGE VOLUME CALCULATION

Casing Volume: \_\_\_\_\_ Ft. of water  
 x \_\_\_\_\_ Gallons/Foot  
 = \_\_\_\_\_ Gallons per Single Casing Volume  
 Sand Pack Volume: \_\_\_\_\_ Ft. of Saturated Sand Pack  
 x \_\_\_\_\_ Gallons/Foot (borehole diameter)  
 = \_\_\_\_\_ Gallons (in borehole)  
 = \_\_\_\_\_ Gallons of Casing Volume  
 = \_\_\_\_\_ x 0.3 (Assuming porosity = 30%)  
 = \_\_\_\_\_ Gallons Within Sand Pack  
 Single Purge Volume: \_\_\_\_\_ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)  
 Minimum Purge Volume: \_\_\_\_\_ Gallons  
 Actual Purge Volume: \_\_\_\_\_ Gallons  
 Volume Measured by: \_\_\_\_\_  
 Rate of Development \_\_\_\_\_ Gallons/Minute (Hour, Day)  
 Pumping Rate/Depth \_\_\_\_\_ @ \_\_\_\_\_ Ft. (Below Grd.)  
 Immiscible Phases Present: Y N Thickness \_\_\_\_\_

#### FLUIDS ADDED

Lost Drilling Fluid: \_\_\_\_\_ Gallons  
 Lost Purge Water: \_\_\_\_\_ Gallons  
 Water During Installation: \_\_\_\_\_ Gallons  
 Total Fluids Added: \_\_\_\_\_ Gallons  
 Source of Added Water: \_\_\_\_\_  
 Ground Water Quality Parameters of Added Water Measured: Y N  
 Sample Collected of Added Water: Y N  
 Sample Designation of Added Water: \_\_\_\_\_

#### INSTRUMENT CALIBRATION

pH Meter: \_\_\_\_\_ Spec. Conductance Meter: \_\_\_\_\_  
 pH 4.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Standard \_\_\_\_\_ μmhos/cm @ 25°C  
 pH 7.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Reading \_\_\_\_\_ μmhos/cm @ \_\_\_\_\_ °C  
 pH 10.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Turbidity Meter: \_\_\_\_\_  
 Dissolved Oxygen Meter: \_\_\_\_\_ Other: \_\_\_\_\_

| Total Volume Discharged | Rate of Discharge | Time | Temp  | pH    | Specific Conductance | Turbidity o.D.O. | Clarity, Odor, PID Readings, Other: |
|-------------------------|-------------------|------|-------|-------|----------------------|------------------|-------------------------------------|
|                         | 475               | 1315 | 22.65 | 7.36  | 0.296                | 7.58             | cloudy, brown                       |
| dry restart             | -                 | 1318 | -     | -     | -                    | -                | -                                   |
|                         | 475               | 1322 | 22.78 | 9.50  | 0.265                | 7.87             | cloudy, brown                       |
| dry restart             | -                 | 1323 | -     | -     | -                    | -                | -                                   |
|                         | 250               | 1328 | -     | -     | -                    | -                | -                                   |
|                         | 250               | 1329 | 22.84 | 9.59  | 0.277                | 7.02             | cloudy                              |
| dry restart             | -                 | 1331 | -     | -     | -                    | -                | -                                   |
|                         | 250               | 1337 | 22.86 | 10.14 | 0.274                | 7.29             | clear                               |

Development Completed at \_\_\_\_\_ Gallons Discharged. Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Criteria: \_\_\_\_\_ Personnel: \_\_\_\_\_

\* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

dry 1338



### WELL DEVELOPMENT DATA SHEET

BORING NO. SS/SB-31

WELL NO. BW-04

Project NORWOOD Landfill  
 Project No. 1034903403004  
 Date(s) of Installation 09/28/2020  
 Date(s) of Development 09/30/2020  
 Personnel/Company TEWA TECH

Casing Diameter/Type PVC 3/4"  
 Borehole Diameter \_\_\_\_\_  
 Screened Interval(s) 10-20  
 Total Length of Well Casing 10  
 Measured Total Depth (TOC) Initial 19.35 ft  
 Final 19.35 ft 19.37

Type of Rig Used \_\_\_\_\_

Initial Depth to Water (TOC) 14.60 ft Date 09/30 Time 0833  
 Stabilized Depth to Water (TOC) 14.61 ft Date 09/30 Time 1035

**DEVELOPMENT TECHNIQUE(S)**  
**EQUIPMENT TYPE/CAPACITY**

Jetting (Airlift) \_\_\_\_\_  
 Surge Block \_\_\_\_\_  
 Bailing \_\_\_\_\_  
 Pumping \_\_\_\_\_  
 Other \_\_\_\_\_

#### PURGE VOLUME CALCULATION

Casing Volume: \_\_\_\_\_ Ft. of water  
 x \_\_\_\_\_ Gallons/Foot  
 = \_\_\_\_\_ Gallons per Single Casing Volume  
 Sand Pack Volume: \_\_\_\_\_ Ft. of Saturated Sand Pack  
 x \_\_\_\_\_ Gallons/Foot (borehole diameter)  
 = \_\_\_\_\_ Gallons (in borehole)  
 = \_\_\_\_\_ Gallons of Casing Volume  
 = \_\_\_\_\_ x 0.3 (Assuming porosity = 30%)  
 = \_\_\_\_\_ Gallons Within Sand Pack  
 Single Purge Volume: \_\_\_\_\_ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)  
 Minimum Purge Volume: \_\_\_\_\_ Gallons  
 Actual Purge Volume: \_\_\_\_\_ Gallons  
 Volume Measured by: \_\_\_\_\_  
 Rate of Development \_\_\_\_\_ Gallons/Minute (Hour, Day)  
 Pumping Rate/Depth \_\_\_\_\_ @ \_\_\_\_\_ Ft. (Below Grd.)  
 Immiscible Phases Present: Y N Thickness \_\_\_\_\_

#### FLUIDS ADDED

Lost Drilling Fluid: \_\_\_\_\_ Gallons  
 Lost Purge Water: \_\_\_\_\_ Gallons  
 Water During Installation: \_\_\_\_\_ Gallons  
 Total Fluids Added: \_\_\_\_\_ Gallons  
 Source of Added Water: \_\_\_\_\_  
 Ground Water Quality Parameters of Added Water Measured: Y N  
 Sample Collected of Added Water: Y N  
 Sample Designation of Added Water: \_\_\_\_\_

#### INSTRUMENT CALIBRATION

pH Meter: \_\_\_\_\_ Spec. Conductance Meter: \_\_\_\_\_  
 pH 4.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Standard \_\_\_\_\_ μmhos/cm @ 25°C  
 pH 7.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Reading \_\_\_\_\_ μmhos/cm @ \_\_\_\_\_ °C  
 pH 10.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Turbidity Meter: \_\_\_\_\_  
 Dissolved Oxygen Meter: \_\_\_\_\_ Other: \_\_\_\_\_

| Total Volume Discharged | Rate of Discharge | Time | Temp  | pH   | Specific Conductance | Turbidity or T.O. | Clarity, Odor, PID Readings, Other: |
|-------------------------|-------------------|------|-------|------|----------------------|-------------------|-------------------------------------|
| 150 ml                  |                   | 0905 | 16.74 | 8.22 | 1.13                 | 0.25              | clear, foggy                        |
| 150                     |                   | 0910 | 16.02 | 6.90 | 1.13                 | 0.00              | clear, foggy                        |
| 150                     |                   | 0920 | 16.65 | 7.23 | 1.15                 | 0.18              | clear, foggy                        |
| 150                     |                   | 0925 | 16.45 | 7.25 | 1.15                 | 0.00              | clear, foggy                        |
| 150                     |                   | 0930 | 16.04 | 7.61 | 1.15                 | 0.00              | clear, foggy                        |
| 150                     |                   | 0935 | 16.03 | 7.65 | 1.15                 | 0.00              | clear, foggy                        |
| 150                     |                   | 0940 | 16.06 | 7.60 | 1.14                 | 0.00              | clear, foggy                        |
| 150                     |                   | 0945 | 16.04 | 7.52 | 1.14                 | 0.00              | clear, foggy                        |
| 150                     |                   | 0955 | 16.20 | 7.53 | 1.13                 | 0.00              | clear, foggy                        |
| 150                     |                   | 1000 | 16.07 | 7.61 | 1.14                 | 0.00              | clear, colorless                    |

Development Completed at \_\_\_\_\_ Gallons Discharged. Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Criteria: \_\_\_\_\_ Personnel: \_\_\_\_\_

\* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

|     |      |       |      |      |      |                  |
|-----|------|-------|------|------|------|------------------|
| 150 | 1005 | 16.02 | 7.43 | 1.14 | 0.00 | clear, colorless |
| 150 | 1010 | 15.86 | 7.46 | 1.14 | 0.00 | clear, colorless |
| 250 | 1015 | 15.85 | 7.47 | 1.13 | 0.00 | clear, colorless |
| 250 | 1020 | 15.86 | 7.51 | 1.13 | 0.00 | clear, colorless |



### WELL DEVELOPMENT DATA SHEET

BORING NO. SS/5B-37

WELL NO. RW-05

Project Norwood Landfill  
 Project No. 103X903Y03004  
 Date(s) of Installation 09/28/2020  
 Date(s) of Development 09/30/2020  
 Personnel/Company Terra Tech

Casing Diameter/Type PVC 3/4"  
 Borehole Diameter \_\_\_\_\_  
 Screened Interval(s) 2-7  
 Total Length of Well Casing 2  
 Measured Total Depth (TOC) Initial 7.39 ft  
 Final 7.39 ft

Type of Rig Used \_\_\_\_\_

Initial Depth to Water (TOC) dry Date 09/30/20 Time 1405  
 Stabilized Depth to Water (TOC) dry Date 09/30/20 Time 1405

#### DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) \_\_\_\_\_  
 Surge Block \_\_\_\_\_  
 Bailing \_\_\_\_\_  
 Pumping \_\_\_\_\_  
 Other \_\_\_\_\_

#### PURGE VOLUME CALCULATION

Casing Volume: \_\_\_\_\_ Ft. of water  
 x \_\_\_\_\_ Gallons/Foot  
 = \_\_\_\_\_ Gallons per Single Casing Volume  
 Sand Pack Volume: \_\_\_\_\_ Ft. of Saturated Sand Pack  
 x \_\_\_\_\_ Gallons/Foot (borehole diameter)  
 = \_\_\_\_\_ Gallons (in borehole)  
 = \_\_\_\_\_ Gallons of Casing Volume  
 = \_\_\_\_\_ x 0.3 (Assuming porosity = 30%)  
 = \_\_\_\_\_ Gallons Within Sand Pack  
 Single Purge Volume: \_\_\_\_\_ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)  
 Minimum Purge Volume: \_\_\_\_\_ Gallons  
 Actual Purge Volume: \_\_\_\_\_ Gallons  
 Volume Measured by: \_\_\_\_\_  
 Rate of Development \_\_\_\_\_ Gallons/Minute (Hour, Day)  
 Pumping Rate/Depth \_\_\_\_\_ @ \_\_\_\_\_ Ft. (Below Grd.)  
 Immiscible Phases Present: Y N Thickness \_\_\_\_\_

#### FLUIDS ADDED

Lost Drilling Fluid: \_\_\_\_\_ Gallons  
 Lost Purge Water: \_\_\_\_\_ Gallons  
 Water During Installation: \_\_\_\_\_ Gallons  
 Total Fluids Added: \_\_\_\_\_ Gallons  
 Source of Added Water: \_\_\_\_\_  
 Ground Water Quality Parameters of Added Water Measured: Y N  
 Sample Collected of Added Water: Y N  
 Sample Designation of Added Water: \_\_\_\_\_

#### INSTRUMENT CALIBRATION

pH Meter: \_\_\_\_\_ Spec. Conductance Meter: \_\_\_\_\_  
 pH 4.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Standard \_\_\_\_\_ μmhos/cm @ 25°C  
 pH 7.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Reading \_\_\_\_\_ μmhos/cm @ \_\_\_\_\_ °C  
 pH 10.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C  
 Dissolved Oxygen Meter: \_\_\_\_\_ Turbidity Meter: \_\_\_\_\_  
 Other: \_\_\_\_\_

| Total Volume Discharged | Rate of Discharge | Time        | Temp | pH | Specific Conductance | Turbidity or D.O. | Clarity, Odor, PID Readings, Other: |
|-------------------------|-------------------|-------------|------|----|----------------------|-------------------|-------------------------------------|
| <u>dry</u>              |                   | <u>1405</u> |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |
|                         |                   |             |      |    |                      |                   |                                     |

Development Completed at \_\_\_\_\_ Gallons Discharged. Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Criteria: \_\_\_\_\_ Personnel: \_\_\_\_\_

\* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.





### WELL DEVELOPMENT DATA SHEET

BORING NO. SS/SS-39A

WELL NO. GWBLO

Project NORWOOD Landfill  
 Project No. 103R903403004  
 Date(s) of Installation 09/29/2020  
 Date(s) of Development 09/30/2020  
 Personnel/Company Tetra Tech

Casing Diameter/Type PVC 3/4"  
 Borehole Diameter \_\_\_\_\_  
 Screened Interval(s) 10-20  
 Total Length of Well Casing 10  
 Measured Total Depth (TOC) Initial 21.8 ft  
 Final 20.09

Type of Rig Used \_\_\_\_\_

Initial Depth to Water (TOC) 9.13 ft Date 09/30/20 Time 1417  
 Stabilized Depth to Water (TOC) 10.38 ft Date 09/30/20 Time 1445

**DEVELOPMENT**  
**TECHNIQUE(S)**      **EQUIPMENT TYPE/CAPACITY**

\_\_\_ Jetting (Airlift) \_\_\_\_\_  
 \_\_\_ Surge Block \_\_\_\_\_  
 \_\_\_ Bailing \_\_\_\_\_  
 Pumping \_\_\_\_\_  
 \_\_\_ Other \_\_\_\_\_

#### PURGE VOLUME CALCULATION

Casing Volume: \_\_\_\_\_ Ft. of water  
 x \_\_\_\_\_ Gallons/Foot  
 = \_\_\_\_\_ Gallons per Single Casing Volume  
 Sand Pack Volume: \_\_\_\_\_ Ft. of Saturated Sand Pack  
 x \_\_\_\_\_ Gallons/Foot (borehole diameter)  
 = \_\_\_\_\_ Gallons (in borehole)  
 = \_\_\_\_\_ Gallons of Casing Volume  
 = \_\_\_\_\_ x 0.3 (Assuming porosity = 30%)  
 = \_\_\_\_\_ Gallons Within Sand Pack  
 Single Purge Volume: \_\_\_\_\_ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)  
 Minimum Purge Volume: \_\_\_\_\_ Gallons  
 Actual Purge Volume: \_\_\_\_\_ Gallons  
 Volume Measured by: \_\_\_\_\_  
 Rate of Development \_\_\_\_\_ Gallons/Minute (Hour, Day)  
 Pumping Rate/Depth \_\_\_\_\_ @ \_\_\_\_\_ Ft. (Below Grd.)  
 Immiscible Phases Present: Y N Thickness \_\_\_\_\_

#### FLUIDS ADDED

Lost Drilling Fluid: \_\_\_\_\_ Gallons  
 Lost Purge Water: \_\_\_\_\_ Gallons  
 Water During Installation: \_\_\_\_\_ Gallons  
 Total Fluids Added: \_\_\_\_\_ Gallons  
 Source of Added Water: \_\_\_\_\_  
 Ground Water Quality Parameters of Added Water Measured: Y N  
 Sample Collected of Added Water: Y N  
 Sample Designation of Added Water: \_\_\_\_\_

#### INSTRUMENT CALIBRATION

pH Meter: \_\_\_\_\_ Spec. Conductance Meter: \_\_\_\_\_  
 pH 4.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Standard \_\_\_\_\_ μmhos/cm @ 25°C  
 pH 7.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Reading \_\_\_\_\_ μmhos/cm @ \_\_\_\_\_ °C  
 pH 10.0 = \_\_\_\_\_ @ \_\_\_\_\_ °C Turbidity Meter: \_\_\_\_\_  
 Dissolved Oxygen Meter: \_\_\_\_\_ Other: \_\_\_\_\_

| Total Volume Discharged | Rate of Discharge | Time  | Temp | pH    | Specific Conductance | Turbidity or D.O.   | Clarity, Odor, PID Readings, Other: |
|-------------------------|-------------------|-------|------|-------|----------------------|---------------------|-------------------------------------|
| 600                     | 1421              | 18.54 | 9.19 | 0.434 | 3.05                 | brown, cloudy       |                                     |
| 600                     | 1426              | 16.92 | 8.62 | 0.385 | 0.55                 | brown, cto clear ms |                                     |
| 600                     | 1431              | 16.68 | 7.62 | 0.361 | 0.75                 | clear               |                                     |
| 600                     | 1436              | 16.66 | 6.96 | 0.355 | 0.86                 | clear               |                                     |
| 600                     | 1441              | 16.70 | 6.65 | 0.347 | 0.71                 | clear               |                                     |
|                         |                   |       |      |       |                      |                     |                                     |
|                         |                   |       |      |       |                      |                     |                                     |
|                         |                   |       |      |       |                      |                     |                                     |
|                         |                   |       |      |       |                      |                     |                                     |

Development Completed at \_\_\_\_\_ Gallons Discharged. Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Criteria: \_\_\_\_\_ Personnel: \_\_\_\_\_

\* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



|                       |                  |         |                     |             |
|-----------------------|------------------|---------|---------------------|-------------|
| Well Name:            | GW01             | initial | Screen Interval:    | 10-20 ft    |
| Well Location:        | GW01             |         | Sample Depth:       | 15          |
| Project:              | Norwood Landfill |         | Static Water Level: | 12.60 ft    |
| Sample Date:          | 10/6/2020        |         | Well Depth:         | 19.94       |
| Sampling Personnel:   | (b) (4)          |         |                     |             |
| Sample ID:            | NL-2020-GW01     |         | final               | water level |
| Duplicate ID:         | -                |         | well depth          | 19.50       |
| Field QC Designation: | AB-01            |         |                     |             |

| Water Quality Information |                         |                         |      |            |          |                                    |                 |                     |
|---------------------------|-------------------------|-------------------------|------|------------|----------|------------------------------------|-----------------|---------------------|
| Time                      | Discharge Rate (ml/min) | Dissolved Oxygen (mg/L) | pH   | EVORP (mV) | Temp (C) | Sp. Cond (umhos/cm <sup>2</sup> C) | Turbidity (NTU) | Depth to Water (ft) |
| 1122                      | 170                     | 2.56                    | 4.65 | 106        | 16.77    | 0.642                              | 0.0             | NM                  |
| 1127                      | 170                     | 0.72                    | 4.25 | 51         | 16.92    | 0.660                              | 959             |                     |
| 1132                      | 170                     | 0.39                    | 4.16 | 53         | 17.10    | 0.666                              | 210             |                     |
| 1137                      | 170                     | 0.34                    | 4.14 | 54         | 17.35    | 0.665                              | 160             |                     |
| 1142                      | 170                     | 0.22                    | 4.11 | 56         | 17.59    | 0.666                              | 79.8            |                     |
| 1147                      | 170                     | 0.19                    | 4.08 | 62         | 17.81    | 0.669                              | 40.2            |                     |
| 1152                      | 170                     | 0.19                    | 4.01 | 63         | 17.70    | 0.670                              | 38.4            |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |
|                           |                         |                         |      |            |          |                                    |                 |                     |

Notes:

Comments: water started cloudy, brown. Now clear and colorless



TETRA TECH

GROUNDWATER SAMPLE LOG SHEET

PAGE 1 OF 1

Project Site Name: Norwood Landfill
Project Number: 103X903403004

Sample ID No: NL-2020-BW01
Sample Location: GWD1
Sampled By: (b) (4)
C.O.C. No:

SAMPLING DATA

Table with 10 columns: DATE, Color, pH, S.C., Temp., Turbidity, DO, Salinity, ORP. Includes handwritten values: 10/05/2020, 1155, grab, clear, 4.01, 0.670, 17.70, 38.4, 0.19, 63.

See sample data sheet

SAMPLE COLLECTION INFORMATION

Table with 4 columns: Analysis, Preservative, Container Requirements, Collected. Lists various analyses like Trace VOCs, TAL SVOCs, PAHs, PCBs, Pesticides, and TAL Metals and HG.

OBSERVATION / NOTES:

MAP:

none

See GPS location

Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time: NA

(b) (4)

Notes:

collected ambient blank 1210

|                       |                              |                     |          |
|-----------------------|------------------------------|---------------------|----------|
| Well Name:            | GW03                         | Screen Interval:    | 8-9      |
| Well Location:        | GW03                         | Sample Depth:       | 8        |
| Project:              | Norwood Landfill             | Static Water Level: | 4.76 ft  |
| Sample Date:          | 10/01/2020                   | Well Depth:         | 8.85     |
| Sampling Personnel:   | (b) (4) TT                   | initial water level | 10.82 ft |
| Sample ID:            | NL-2020-GW03                 | final well depth    | 8.84     |
| Duplicate ID:         | N/A                          |                     |          |
| Field QC Designation: | adjusting for PCB, PCE, MCHL |                     |          |

**Water Quality Information**

| Time | Discharge Rate (ml/min) | Dissolved Oxygen (mg/L) | pH   | Eh/ORP (mV) | Temp (C) | Sp. Cond (umhos/cm <sup>2</sup> C) | Turbidity (NTU) | Depth to Water (ft) |
|------|-------------------------|-------------------------|------|-------------|----------|------------------------------------|-----------------|---------------------|
| 1351 | 160                     | 4.910                   | 9.04 | -24         | 23.65    | 0.251                              | 0.0             | NM                  |
| 1354 | dry                     |                         |      |             |          |                                    |                 |                     |
|      | restarted               |                         |      |             |          |                                    |                 |                     |
| 1400 | recharged               |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |
|      |                         |                         |      |             |          |                                    |                 |                     |

water level 4.08

Notes: well quickly dried and recharged

Comments: none

GROUNDWATER SAMPLE LOG SHEET



TETRA TECH

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-GW03  
 Sample Location: GW03  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                   |              |             |              |              |            |             |          |            |
|---------|-------------------|--------------|-------------|--------------|--------------|------------|-------------|----------|------------|
| DATE:   | <u>10/01/2020</u> | Color        | pH          | S.C.         | Temp.        | Turbidity  | DO          | Salinity | ORP        |
| Time    | <u>1405</u>       | Visual       | Standard    | mS/cm        | Degrees C    | NTU        | mg/L        | ppt      | mV         |
| Depth:  |                   | <u>clear</u> | <u>9.04</u> | <u>0.251</u> | <u>23.65</u> | <u>0.0</u> | <u>4.96</u> | <u>-</u> | <u>-29</u> |
| Method: | <u>grab</u>       |              |             |              |              |            |             |          |            |

see sample data sheet

SAMPLE COLLECTION INFORMATION

| Analysis          | Preservative     | Container Requirements | Collected |
|-------------------|------------------|------------------------|-----------|
| Trace VOCs        | HCL              | 40-ml VOA              | 3         |
| TAL SVOCs         | None             | 1- L amber             | 2         |
| PAHs by SIM       | None             | 1- L amber             | 2         |
| PCBs              | None             | 1-L amber              | 2         |
| Pesticides        | None             | 1- L amber             | 2         |
| TAL Metals and HG | HNO <sub>3</sub> | 1L HDPE Poly           | 1         |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |

OBSERVATION / NOTES:

MAP:

none

see GPS location

Circle if Applicable

Signature(s):

MS/MSD

Duplicate ID No:

NA

Sample Time:

(b) (4)

Notes:

none



|                       |                              |                     |       |
|-----------------------|------------------------------|---------------------|-------|
| Well Name:            | GW-04                        | Screen Interval:    | 10-20 |
| Well Location:        | GW-04                        | Sample Depth:       | 15    |
| Project:              | Norwood Landfill             | Static Water Level: | 14.64 |
| Sample Date:          | 10/01/2020                   | Well Depth:         | 19.42 |
| Sampling Personnel:   | (b) (4)                      | initial             |       |
| Sample ID:            | NL-2020-GW-04                | end                 |       |
| Duplicate ID:         | NR                           | water level 14.64   |       |
| Field QC Designation: | MS/MSD for PCB, Pest, Metals | well depth 19.42    |       |

| Water Quality Information |                         |                         |      |             |          |                                    |                 |                     |
|---------------------------|-------------------------|-------------------------|------|-------------|----------|------------------------------------|-----------------|---------------------|
| Time                      | Discharge Rate (ml/min) | Dissolved Oxygen (mg/L) | pH   | Eh/ORP (mV) | Temp (C) | Sp. Cond (umhos/cm <sup>o</sup> C) | Turbidity (NTU) | Depth to Water (ft) |
| 1130                      | 250                     | 3.09                    | 7.51 | 57          | 16.85    | 1.18                               | 34.3            | NM                  |
| 1135                      | 250                     | 0.00                    | 7.51 | -4          | 16.11    | 1.17                               | 34.6            |                     |
| 1140                      | 250                     | 0.00                    | 7.49 | -5          | 15.99    | 1.16                               | 14.2            |                     |
| 1145                      | 250                     | 0.00                    | 7.48 | -5          | 15.89    | 1.15                               | 6.4             |                     |
| 1150                      | 250                     | 0.00                    | 7.47 | -3          | 15.85    | 1.15                               | 4.8             |                     |
| 1155                      | 250                     | 0.00                    | 7.48 | -1          | 15.83    | 1.14                               | 3.9             |                     |
| 1158                      | pump failed             |                         |      |             |          |                                    |                 |                     |
| 1201                      | restart                 |                         |      |             |          |                                    |                 |                     |
| 1201                      | 250                     | 0.00                    | 7.43 | 7           | 15.73    | 1.14                               | 70.69           |                     |
| 1206                      | 250                     | 0.00                    | 7.46 | 8           | 15.64    | 1.13                               | 11.1            |                     |
| 1211                      | 250                     | 0.00                    | 7.45 | 10          | 15.64    | 1.12                               | 5.9             |                     |
| 1216                      | 250                     | 0.00                    | 7.44 | 10          | 15.62    | 1.12                               | 3.4             |                     |

Notes: none

Comments: none

GROUNDWATER SAMPLE LOG SHEET



PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-6W04  
 Sample Location: 6W04  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                   |              |             |             |              |            |             |          |           |
|---------|-------------------|--------------|-------------|-------------|--------------|------------|-------------|----------|-----------|
| DATE:   | <u>10/01/2020</u> | Color        | pH          | S.C.        | Temp.        | Turbidity  | DO          | Salinity | ORP       |
| Time    | <u>1225</u>       | Visual       | Standard    | mS/cm       | Degrees C    | NTU        | mg/L        | ppt      | mV        |
| Depth:  | <u>-</u>          | <u>clear</u> | <u>7.44</u> | <u>1.12</u> | <u>15.62</u> | <u>3.4</u> | <u>0.00</u> | <u>-</u> | <u>10</u> |
| Method: | <u>grab</u>       |              |             |             |              |            |             |          |           |

see sample data sheet

SAMPLE COLLECTION INFORMATION

| Analysis          | Preservative     | Container Requirements | Collected |
|-------------------|------------------|------------------------|-----------|
| Trace VOCs        | HCL              | 40-ml VOA              | 3         |
| TAL SVOCs         | None             | 1- L amber             | 2         |
| PAHs by SIM       | None             | 1- L amber             | 2         |
| PCBs              | None             | 1-L amber              | 2         |
| Pesticides        | None             | 1- L amber             | 2         |
| TAL Metals and HG | HNO <sub>3</sub> | 1L HDPE-Poly           | 1         |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |

|                      |                         |
|----------------------|-------------------------|
| OBSERVATION / NOTES: | MAP:                    |
| <u>none</u>          | <u>see GPS location</u> |

|                      |                                      |                |
|----------------------|--------------------------------------|----------------|
| Circle if Applicable |                                      | Signature(s):  |
| MS/MSD<br><u>yes</u> | Duplicate ID No: <u>NL-2020-6W04</u> | <u>(b) (4)</u> |
|                      | Sample Time: <u>1225</u>             |                |

Notes: none



|                       |                  |                     |                   |
|-----------------------|------------------|---------------------|-------------------|
| Well Name:            | GW010            | Screen Interval:    | 10-20             |
| Well Location:        | GW010            | Sample Depth:       | 15ft              |
| Project:              | Norwood Landfill | Static Water Level: | 10.45ft           |
| Sample Date:          | 10/05/2020       | Well Depth:         | 20.09ft           |
| Sampling Personnel:   | (b) (4)          | initial             |                   |
| Sample ID:            | NL-2020-GW010    | final               | Water level 10.45 |
| Duplicate ID:         | NL-2020-GW010-01 |                     | Well depth 20.09  |
| Field QC Designation: | NA               |                     |                   |

| Water Quality Information |                         |                         |      |             |          |                         |                 |                     |
|---------------------------|-------------------------|-------------------------|------|-------------|----------|-------------------------|-----------------|---------------------|
| Time                      | Discharge Rate (ml/min) | Dissolved Oxygen (mg/L) | pH   | Eh/ORP (mV) | Temp (C) | Sp. Cond (umhos/cm @ C) | Turbidity (NTU) | Depth to Water (ft) |
| 0810                      | 300                     | 1.32                    | 4.81 | 225         | 15.21    | 0.426                   | 0.0             | NM                  |
| 0815                      | 300                     | 0.54                    | 4.78 | 134         | 15.97    | 0.386                   | 0.0             | ↓                   |
| 0820                      | 300                     | 0.22                    | 4.77 | 56          | 16.31    | 0.376                   | 550             |                     |
| 0825                      | 300                     | 0.07                    | 4.72 | 29          | 16.43    | 0.363                   | 105             |                     |
| 0830                      | 300                     | 0.01                    | 4.70 | 15          | 16.44    | 0.357                   | 74.7            |                     |
| 0835                      | 300                     | 0.00                    | 4.65 | 4           | 16.47    | 0.349                   | 44.4            |                     |
| 0840                      | 300                     | 0.00                    | 4.61 | 0           | 16.46    | 0.345                   | 32.2            |                     |
| 0845                      | 300                     | 0.00                    | 4.56 | -2          | 16.45    | 0.339                   | 31.2            |                     |
| 0850                      | 300                     | 0.00                    | 4.51 | 0           | 16.46    | 0.336                   | 31.5            |                     |
|                           |                         |                         |      |             |          |                         |                 |                     |

Notes:

Comments: started cloudy, cleared up



GROUNDWATER SAMPLE LOG SHEET



TETRA TECH

PAGE 1 OF 1

Project Site Name: Norwood Landfill  
 Project Number: 103X903403004

Sample ID No: NL-2020-GW06  
 Sample Location: GW06  
 Sampled By: (b) (4)  
 C.O.C. No: \_\_\_\_\_

SAMPLING DATA

|         |                   |             |             |              |              |             |             |          |          |
|---------|-------------------|-------------|-------------|--------------|--------------|-------------|-------------|----------|----------|
| DATE:   | <u>10/05/2020</u> | Color       | pH          | S.C.         | Temp.        | Turbidity   | DO          | Salinity | ORP      |
| Time    | <u>0855</u>       | Visual      | Standard    | mS/cm        | Degrees C    | NTU         | mg/L        | ppt      | mV       |
| Depth:  |                   | <u>clr.</u> | <u>4.51</u> | <u>0.336</u> | <u>16.46</u> | <u>31.5</u> | <u>0.00</u> | <u>—</u> | <u>0</u> |
| Method: | <u>grab</u>       |             |             |              |              |             |             |          |          |

see sample data sheet

SAMPLE COLLECTION INFORMATION

| Analysis          | Preservative     | Container Requirements | Collected |
|-------------------|------------------|------------------------|-----------|
| Trace VOCs        | HCL              | 40-ml VOA              | <u>6</u>  |
| TAL SVOCs         | None             | 1- L amber             | <u>4</u>  |
| PAHs by SIM       | None             | 1- L amber             | <u>4</u>  |
| PCBs              | None             | 1-L amber              | <u>4</u>  |
| Pesticides        | None             | 1- L amber             | <u>4</u>  |
| TAL Metals and HG | HNO <sub>3</sub> | 1L HDPE Poly           | <u>2</u>  |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |
|                   |                  |                        |           |

OBSERVATION / NOTES:

MAP:

none

see GPS location.

Circle if Applicable

Signature(s):

MS/MSD

NA

Duplicate ID No: NL-2020-GW06-01

Sample Time: 1200

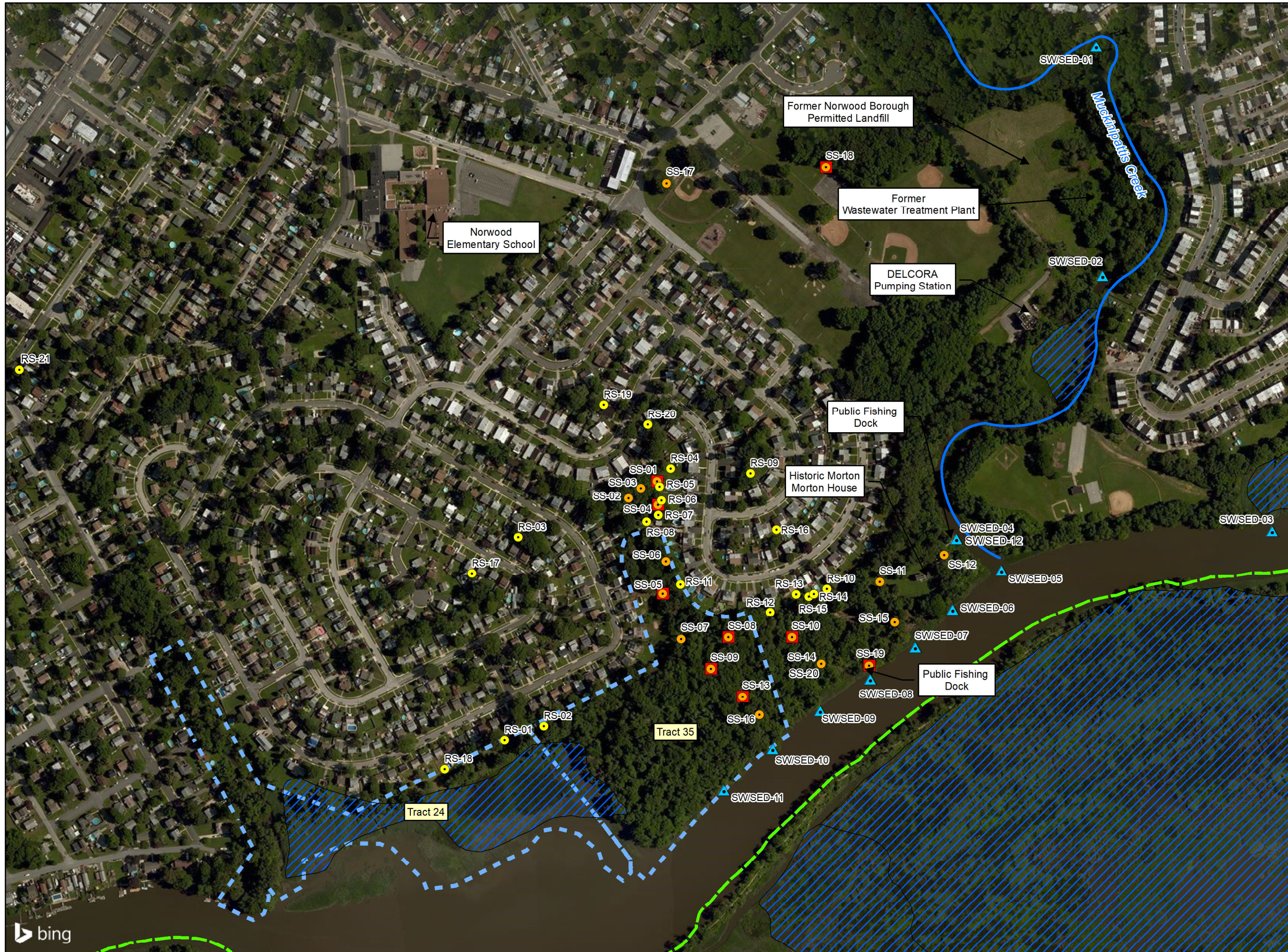
(b) (4)

Notes:

None

## **APPENDIX D**

### **2017/2018 SAMPLING LOCATION MAP AND ANALYTICAL SUMMARY TABLES**



- Legend**
- Parcels Previously Sampled by USFWS
  - John Heinz National Wildlife Refuge
  - NWI Wetlands
  - Muckinipattis Creek
  - ▲ SW/Sed Sample Locations
  - Residential Surface Soil Sample Locations
  - Surface Soil Sample Locations
  - Surface and Subsurface Sample Locations

*Data Sources*  
 Imagery: ESRI, Bing Mapping Service  
 The source of this map image is Esri, used by the EPA with Esri's permission

*Shapefiles: US Fish and Wildlife Service*

*Coordinate System:*  
 WGS 1984 UTM Zone 18N  
 Linear Unit: Foot US

*Datum: WGS 1984*



Norwood Landfill Site  
 Norwood, Delaware County, PA

**Figure 3**  
 Sample Location Map

TDD#: W503-17-03-001  
 Contract: EP-S3-15-02  
 Prepared: 10/11/2018

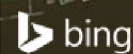










Table 2  
Norwood Landfill  
Surface and Subsurface Soil Samples

| Sample Number:               | EPA RSL<br>Residential<br>(µg/kg) | EPA RSL<br>Industrial<br>(µg/kg) | NL-2017-SS-01 |    | NL-2017-SB-01 |   | NL-2017-SS-02 |   | NL-2017-SS-03 |   | NL-2017-SS-04 |   | NL-2017-SB-04 |   | NL-2017-SS-05 |   | NL-2017-SB-05 |   |
|------------------------------|-----------------------------------|----------------------------------|---------------|----|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|
| CLP Sample Number:           |                                   |                                  | C0AB2         |    | C0AF5         |   | C0AB2         |   | C0AB3         |   | C0AB5         |   | C0AF6         |   | C0AB6         |   | C0AF8         |   |
| Units:                       |                                   |                                  | µg/kg         |    | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   |
| Sample Date:                 |                                   |                                  | 9/28/2017     |    | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   |
| Sample Depth:                |                                   |                                  | 0-6           |    | 24-48         |   | 0-6           |   | 0-6           |   | 0-6           |   | 24-48         |   | 0-6           |   | 24-48         |   |
| Sample Type:                 |                                   |                                  | Field         |    | Field         |   | Field         |   | Field         |   | Field         |   | Field         |   | Field         |   | Field         |   |
| PCB                          | Result                            | Q                                | Result        | Q  | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q |
| Aroclor-1254                 | 120                               | 970                              | 39            | U  | 40            | U | 38            | U | 38            | U | 39            | U | 36            | U | <b>450</b>    |   | 38            | U |
| Aroclor-1260                 | 240                               | 990                              | 16            | J  | 40            | U | 13            | J | 14            | J | 8             | J | 25            | J | <b>240</b>    | J | 38            | U |
| Pesticides                   |                                   |                                  |               |    |               |   |               |   |               |   |               |   |               |   |               |   |               |   |
| 4,4-DDE                      | 2,000                             | 9,300                            | 2.5           | J  | 0.68          | J | 3.8           | U | 3.8           | U | 3.9           | U | <b>5.1</b>    | J | 7.7           |   | <b>5.4</b>    |   |
| 4,4-DDD                      | 190                               | 2,500                            | 3.9           | UJ | 4             | U | 3.8           | U | 3.8           | U | 3.9           | U | 2.5           | J | 3.7           | U | <b>11</b>     | J |
| 4,4-DDT                      | 1,900                             | 8,500                            | 6.6           | J  | 1.8           | J | 3.8           | U | 3.8           | U | 3.9           | U | 3.4           | J | 3.7           | U | <b>24</b>     | J |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 7,700                            | 2             | UJ | 2.1           | U | 1.9           | U | 2             | U | 2             | U | 1.9           | U | <b>24</b>     |   | <b>15</b>     |   |
| trans-Chlordane <sup>1</sup> | 1,700                             | 7,700                            | 2             | UJ | 2.1           | U | 1.9           | U | 2             | U | 2             | U | 1.9           | U | <b>25</b>     |   | <b>13</b>     | J |
| Heptachlor                   | 130                               | 630                              | 2             | UJ | 2.1           | U | 1.9           | U | 2             | U | 2             | U | 1.9           | U | <b>2.4</b>    | J | 1.5           | J |
| Heptachlor epoxide           | 70                                | 330                              | 2             | UJ | 2.1           | U | 1.9           | U | 2             | U | 2             | U | 1.9           | U | 1.9           | U | 1.9           | U |
| Dieldrin                     | 34                                | 140                              | 3.9           | UJ | 4             | U | <b>6.8</b>    | J | 3.8           | U | 3.9           | U | 3.6           | U | <b>85</b>     |   | <b>540</b>    |   |
| Aldrin                       | 39                                | 180                              | 2             | UJ | 2.1           | U | 1.9           | U | 2             | U | 2             | U | 1.9           | U | <b>18</b>     | J | <b>440</b>    |   |
| Endrin ketone                | NL                                | NL                               | 3.9           | UJ | 4             | U | 3.8           | U | 3.8           | U | 3.9           | U | 3.6           | U | 3.7           | U | <b>18</b>     |   |

Notes:

<sup>1</sup> The RSL values in table are for Chlordane

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier



Table 2  
Norwood Landfill  
Surface and Subsurface Soil Samples

| Sample Number:               | EPA RSL<br>Residential<br>(µg/kg) | EPA RSL<br>Industrial<br>(µg/kg) | NL-2017-SS-06 |   | NL-2017-SS-07 |   | NL-2017-SS-08 |   | NL-2017-SB-08 |   | NL-2017-SS-09 |   | NL-2017-SB-09 |    | NL-2017-SS-10 |   | NL-2017-SB-10 |   |
|------------------------------|-----------------------------------|----------------------------------|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|----|---------------|---|---------------|---|
| CLP Sample Number:           |                                   |                                  | C0AB7         |   | C0AB8         |   | C0AB9         |   | C0AF7         |   | C0AC0         |   | C0AF0         |    | C0AC1         |   | C0AE8         |   |
| Units:                       |                                   |                                  | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |    | µg/kg         |   | µg/kg         |   |
| Sample Date:                 |                                   |                                  | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/27/2017     |   | 9/27/2017     |    | 9/27/2017     |   | 9/27/2017     |   |
| Sample Depth:                |                                   |                                  | 0-6           |   | 0-6           |   | 0-6           |   |               |   | 0-6           |   | 24-40         |    | 0-6           |   | 24-36         |   |
| Sample Type:                 |                                   |                                  | Field         |   | Field         |   | Field         |   | Field         |   | Field         |   | Field         |    | Field         |   | Field         |   |
| PCB                          |                                   |                                  | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q  | Result        | Q | Result        | Q |
| Aroclor-1254                 | 120                               | 970                              | 37            |   | 40            | U | 36            | U | 36            | U | <b>170</b>    |   | 42            | U  | 40            | U | 37            | U |
| Aroclor-1260                 | 240                               | 990                              | 13            | J | 6.8           | J | 36            | U | 36            | U | <b>280</b>    |   | 42            | U  | 53            | J | 37            | U |
| Pesticides                   |                                   |                                  |               |   |               |   |               |   |               |   |               |   |               |    |               |   |               |   |
| 4,4-DDE                      | 2,000                             | 9,300                            | 3.7           | U | 0.71          | J | 3.6           | U | 3.6           | U | <b>16</b>     | J | <b>55</b>     | J  | <b>16</b>     | J | 2.8           | J |
| 4,4-DDD                      | 190                               | 2,500                            | 3.7           | U | 4             | U | 3.6           | U | 3.6           | U | <b>130</b>    |   | <b>72</b>     | J  | 4             | U | <b>4.5</b>    |   |
| 4,4-DDT                      | 1,900                             | 8,500                            | 0.73          | J | 4             | U | 3.6           | U | 3.6           | U | <b>22</b>     | J | 4.3           | UJ | <b>66</b>     |   | <b>13</b>     | J |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 7,700                            | 1.9           | U | 2.1           | U | 1.9           | U | 1.9           | U | <b>18</b>     |   | <b>9.9</b>    | J  | <b>17</b>     | J | <b>30</b>     |   |
| trans-Chlordane <sup>1</sup> | 1,700                             | 7,700                            | 1.9           | U | 2.1           | U | 1.9           | U | 1.9           | U | <b>7.1</b>    | J | <b>7.1</b>    | J  | <b>6.9</b>    | J | <b>27</b>     |   |
| Heptachlor                   | 130                               | 630                              | 1.9           | U | 2.1           | U | 1.9           | U | 1.9           | U | 2.9           | U | <b>2.2</b>    | J  | 0.5           | J | 1.9           | U |
| Heptachlor epoxide           | 70                                | 330                              | 1.9           | U | 2.1           | U | 1.9           | U | 1.9           | U | 2.9           | U | <b>2.2</b>    | J  | <b>3.5</b>    | J | 1.9           | U |
| Dieldrin                     | 34                                | 140                              | 3.7           | U | 4             | U | 3.6           | U | 3.6           | U | 5.6           | U | <b>4.3</b>    | J  | <b>6.5</b>    | J | 2.5           | J |
| Aldrin                       | 39                                | 180                              | 0.69          | J | 2.1           | U | 1.9           | U | 1.9           | U | 2.9           | U | 2.2           | UJ | 2.1           | U | 1.9           | U |
| Endrin ketone                | NL                                | NL                               | 3.7           | U | 4             | U | 3.6           | U | 3.6           | U | 5.6           | U | 4.3           | UJ | 4             | U | 3.7           | U |

Notes:

<sup>1</sup> The RSL values in table are for Chlordane

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 2  
Norwood Landfill  
Surface and Subsurface Soil Samples

| Sample Number:               | EPA RSL<br>Residential<br>(µg/kg) | EPA RSL<br>Industrial<br>(µg/kg) | NL-2017-SS-11 |   | NL-2017-SS-12 |   | NL-2017-SS-13 |   | NL-2017-SB-13 |   | NL-2017-SS-14 |   | NL-2017-SS-15 |    | NL-2017-SS-16 |    |
|------------------------------|-----------------------------------|----------------------------------|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|----|---------------|----|
| CLP Sample Number:           |                                   |                                  | C0AC2         |   | C0AC3         |   | C0AC4         |   | C0AF1         |   | C0AC5         |   | C0AC6         |    | C0AC7         |    |
| Units:                       |                                   |                                  | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |    | µg/kg         |    |
| Sample Date:                 |                                   |                                  | 9/28/2017     |   | 9/27/2017     |   | 9/27/2017     |   | 9/27/2017     |   | 9/27/2017     |   | 9/27/2017     |    | 9/27/2017     |    |
| Sample Depth:                |                                   |                                  | 0-6           |   | 0-6           |   | 0-6           |   | 24-48         |   | 0-6           |   | 0-6           |    | 0-6           |    |
| Sample Type:                 |                                   |                                  | Field         |   | Field         |   | Field         |   | Field         |   | Dup of SS-20  |   | Field         |    | Field         |    |
| PCB                          | Result                            | Q                                | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q  | Result        | Q  |
| Aroclor-1254                 | 120                               | 970                              | 44            | U | 40            | U | 36            | U | 58            | U | 43            | U | 44            | UJ | 45            | U  |
| Aroclor-1260                 | 240                               | 990                              | 44            | U | 9.5           | J | 7             | J | 58            | U | 58            |   | 25            | J  | 5             | J  |
| Pesticide                    |                                   |                                  |               |   |               |   |               |   |               |   |               |   |               |    |               |    |
| 4,4-DDE                      | 2,000                             | 9,300                            | 23            | J | 4             | U | 1.3           | J | 5.8           | U | 11            | J | 14            | J  | 2.5           | J  |
| 4,4-DDD                      | 190                               | 2,500                            | 4.4           | U | 4             | U | 1.3           | J | 5.8           | U | 4.3           | U | 5.5           | J  | 0.16          | J  |
| 4,4-DDT                      | 1,900                             | 8,500                            | 36            | J | 4             | U | 3             | J | 5.8           | U | 22            |   | 8.4           | J  | 1.2           | J  |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 7,700                            | 2.3           | U | 1.5           | J | 1.9           | U | 21            | J | 9.2           | J | 2.3           | UJ | 2.3           | UJ |
| trans-Chlordane <sup>1</sup> | 1,700                             | 7,700                            | 2.3           | U | 0.72          | J | 1.9           | U | 26            | J | 5.5           | J | 2.3           | UJ | 2.3           | UJ |
| Heptachlor                   | 130                               | 630                              | 2.3           | U | 2.1           | U | 1.9           | U | 3             | U | 2.2           | U | 2.3           | UJ | 2.3           | UJ |
| Heptachlor epoxide           | 70                                | 330                              | 2.3           | U | 2.1           | U | 1.9           | U | 3             | U | 2.2           | U | 2.3           | UJ | 2.3           | UJ |
| Dieldrin                     | 34                                | 140                              | 4.4           | U | 2.6           | J | 3.6           | U | 5.8           | U | 4.3           | U | 4.4           | UJ | 4.5           | UJ |
| Aldrin                       | 39                                | 180                              | 2.3           | U | 2.1           | U | 1.9           | U | 8.7           | J | 2.2           | U | 2.3           | UJ | 2.3           | UJ |
| Endrin ketone                | NL                                | NL                               | 4.4           | U | 4             | U | 3.6           | U | 5.8           | U | 4.3           | U | 4.4           | UJ | 4.5           | UJ |

Notes:

<sup>1</sup> The RSL values in table are for Chlordane

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 2  
Norwood Landfill  
Surface and Subsurface Soil Samples

| Sample Number:               | EPA RSL<br>Residential<br>(µg/kg) | EPA RSL<br>Industrial<br>(µg/kg) | NL-2017-SS-17 |   | NL-2017-SS-18 |   | NL-2017-SB-18 |   | NL-2017-SS-19 |   | NL-2017-SB-19 |    | NL-2017-SS-20 |    |
|------------------------------|-----------------------------------|----------------------------------|---------------|---|---------------|---|---------------|---|---------------|---|---------------|----|---------------|----|
| CLP Sample Number:           |                                   |                                  | C0AC8         |   | C0AC9         |   | C0AF4         |   | C0AD0         |   | C0AE7         |    | C0AD1         |    |
| Units:                       |                                   |                                  | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |   | µg/kg         |    | µg/kg         |    |
| Sample Date:                 |                                   |                                  | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/27/2017     |   | 9/27/2017     |    | 9/27/2017     |    |
| Sample Depth:                |                                   |                                  | 0-6           |   | 0-6           |   | 24-48         |   | 0-6           |   | 24-30         |    | 0-6           |    |
| Sample Type:                 |                                   |                                  | Background    |   | Background    |   | Background    |   | Field         |   | Field         |    | Dup of SS-14  |    |
| PCB                          |                                   |                                  | Result        | Q | Result        | Q | Result        | Q | Result        | Q | Result        | Q  | Result        | Q  |
| Aroclor-1254                 | 120                               | 970                              | 36            | U | 77            |   | 39            | U | 50            | U | 42            | U  | 41            | U  |
| Aroclor-1260                 | 240                               | 990                              | 17            | J | 57            |   | 39            | U | 34            | J | 42            | U  | 23            | J  |
| Pesticide                    |                                   |                                  |               |   |               |   |               |   |               |   |               |    |               |    |
| 4,4-DDE                      | 2,000                             | 9,300                            | 3.3           | J | 4             | U | 3.9           | U | 8.5           | J | 5.3           | J  | 3.9           | J  |
| 4,4-DDD                      | 190                               | 2,500                            | 3.6           | U | 4             | U | 3.9           | U | 5             | U | 4.2           | UJ | 4.1           | UJ |
| 4,4-DDT                      | 1,900                             | 8,500                            | 4.2           | J | 4             | U | 3.9           | U | 21            |   | 20            | J  | 9.9           | J  |
| cis-Chlordane <sup>1</sup>   | 1,700                             | 7,700                            | 1.9           | U | 2.1           | U | 2             | U | 11            | J | 8.7           | J  | 5.3           | J  |
| trans-Chlordane <sup>1</sup> | 1,700                             | 7,700                            | 1.9           | U | 2.1           | U | 2             | U | 11            |   | 8.1           | J  | 2.8           | J  |
| Heptachlor                   | 130                               | 630                              | 1.9           | U | 2.1           | U | 2             | U | 2.6           | U | 2.2           | UJ | 2.1           | UJ |
| Heptachlor epoxide           | 70                                | 330                              | 1.9           | U | 2.1           | U | 2             | U | 2.6           | U | 2.2           | UJ | 2.1           | UJ |
| Dieldrin                     | 34                                | 140                              | 3.6           | U | 4             | U | 3.9           | U | 5             | U | 4.2           | UJ | 4.1           | UJ |
| Aldrin                       | 39                                | 180                              | 1.9           | U | 2.1           | U | 2             | U | 2.6           | U | 2.2           | UJ | 2.1           | UJ |
| Endrin ketone                | NL                                | NL                               | 3.6           | U | 4             | U | 3.9           | U | 5             | U | 4.2           | UJ | 4.1           | UJ |

Notes:

<sup>1</sup> The RSL values in table are for Chlordane

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 3  
Norwood Landfill  
Surface and Subsurface Soil Sample  
Inorganic Analytical Results Summary

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | EPA RSL<br>Industrial<br>(mg/kg) | NL-2017-SS-01 |   | NL-2017-SB-01 |   | NL-2017-SS-02 |    | NL-2017-SS-03 |   | NL-2017-SS-04 |   | NL-2017-SB-04 |   | NL-2017-SS-05 |    | NL-2017-SB-05 |    |              |    |
|-----------------------|-----------------------------------|----------------------------------|---------------|---|---------------|---|---------------|----|---------------|---|---------------|---|---------------|---|---------------|----|---------------|----|--------------|----|
| CLP Sample Number:    |                                   |                                  | C0AB2         |   | C0AF5         |   | C0AB2         |    | C0AB3         |   | C0AB5         |   | C0AF6         |   | C0AB6         |    | C0AF8         |    |              |    |
| Units:                |                                   |                                  | mg/kg         |   | mg/kg         |   | mg/kg         |    | mg/kg         |   | mg/kg         |   | mg/kg         |   | mg/kg         |    | mg/kg         |    |              |    |
| Sample Date:          |                                   |                                  | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |    | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |   | 9/28/2017     |    | 9/28/2017     |    |              |    |
| Sample Depth:         |                                   |                                  | 0-6           |   | 24-48         |   | 0-6           |    | 0-6           |   | 0-6           |   | 24-48         |   | 0-6           |    | 24-48         |    |              |    |
| Sample Type:          |                                   |                                  | Field         |   | Field         |   | Field         |    | Field         |   | Field         |   | Field         |   | Field         |    | Field         |    |              |    |
| Metal                 | Result                            | Q                                | Result        | Q | Result        | Q | Result        | Q  | Result        | Q | Result        | Q | Result        | Q | Result        | Q  | Result        | Q  |              |    |
| Aluminum              | 77,000                            |                                  | 110,000       |   | 7680          |   | 7290          |    | 5720          |   | 6670          |   | 8570          |   | 6170          |    | 11900         |    | 8870         |    |
| Antimony              | 3.1                               |                                  | 47            |   | 0.61          | J | 5.1           | UJ | 0.64          | J | 0.76          | J | 0.58          | J | 4.8           | UJ | 0.94          | J  | 1.7          | J  |
| Arsenic               | 0.68                              |                                  | 3             |   | <b>7.2</b>    |   | <b>2.9</b>    |    | <b>4.5</b>    |   | <b>5.4</b>    |   | <b>5.0</b>    |   | <b>3.7</b>    |    | <b>4.5</b>    |    | <b>2.1</b>   |    |
| Barium                | 1,500                             |                                  | 22,000        |   | 46.9          |   | 39.0          |    | 35.2          |   | 39.8          |   | 38.3          |   | 54.7          |    | <b>220</b>    |    | <b>117</b>   |    |
| Beryllium             | 16                                |                                  | 230           |   | 0.59          |   | 0.54          |    | 0.44          |   | 0.49          |   | 0.56          |   | 0.51          |    | 0.84          |    | 0.84         |    |
| Cadmium               | 7.1                               |                                  | 98            |   | 0.79          |   | 0.63          |    | 0.59          |   | 0.77          |   | 0.68          |   | 0.56          |    | 2.0           |    | 2.4          |    |
| Calcium               | NL                                |                                  | NL            |   | 1510          | J | <b>713</b>    |    | 843           | J | 2580          | J | 1380          | J | <b>542</b>    |    | 3690          | J  | <b>2900</b>  |    |
| Chromium <sup>1</sup> | 12,000                            |                                  | 180,000       |   | 17.3          |   | 15.3          |    | 12.4          |   | 12.9          |   | 15.3          |   | 12.4          |    | 27.0          |    | 35.3         | J  |
| Cobalt                | 2.3                               |                                  | 35            |   | <b>5.3</b>    | J | <b>5.6</b>    |    | <b>5.0</b>    | J | <b>5.7</b>    | J | <b>5.2</b>    | J | <b>4.1</b>    |    | <b>9.9</b>    | J  | <b>9.4</b>   |    |
| Copper                | 310                               |                                  | 4,700         |   | 22.0          | J | 12.1          |    | 14.9          | J | 15.6          | J | 17.1          | J | <b>54.3</b>   |    | 50.2          | J  | <b>72.8</b>  | J  |
| Iron                  | 5,500                             |                                  | 82,000        |   | <b>16000</b>  |   | <b>15200</b>  |    | <b>12800</b>  |   | <b>13700</b>  |   | <b>14800</b>  |   | <b>12800</b>  |    | <b>27300</b>  |    | <b>37600</b> |    |
| Lead <sup>2</sup>     | 400                               |                                  | 1,200         |   | 31.7          |   | 17.3          |    | 48.0          |   | 46.1          |   | 25.2          |   | <b>46.2</b>   |    | <b>316</b>    |    | <b>228</b>   |    |
| Magnesium             | NL                                |                                  | NL            |   | 1990          | J | 1650          |    | 1390          | J | 1960          | J | 1970          | J | 1680          |    | 4050          | J  | 4170         |    |
| Manganese             | 180                               |                                  | 2,600         |   | 165           | J | 114           |    | <b>202</b>    | J | <b>328</b>    | J | <b>300</b>    | J | 65.4          |    | <b>292</b>    | J  | <b>292</b>   | J  |
| Mercury               | 1.1                               |                                  | 4.6           |   | 0.059         | J | 0.1           | UJ | 0.087         | J | 0.10          | J | 0.068         | J | 0.98          | UJ | 0.60          |    | <b>0.5</b>   |    |
| Nickel                | 150                               |                                  | 2,200         |   | 11.2          |   | 9.9           |    | 8.7           |   | 11.4          |   | 11.1          |   | 8.5           |    | 17.7          |    | <b>35.8</b>  |    |
| Potassium             | NL                                |                                  | NL            |   | 447           | J | 387           | J  | 330           | J | 502           | J | 579           | J | 675           |    | <b>3180</b>   | J  | <b>1410</b>  |    |
| Selenium              | 390                               |                                  | 5,800         |   | 3.0           | U | 3.0           | UJ | 3.0           | U | 2.9           | U | 3.0           | U | 2.8           | UJ | 2.9           | U  | 2.9          | UJ |
| Silver                | 390                               |                                  | 5,800         |   | 0.45          | J | 0.52          | J  | 0.40          | J | 0.40          | J | 0.42          | J | 0.43          | J  | 0.91          | J- | 2.0          | J- |
| Sodium                | NL                                |                                  | NL            |   | 97.1          | J | 76.4          | J  | 62.9          | J | 69.6          | J | 82.0          | J | 108           | J  | 168           | J  | 174          | J  |
| Thallium              | 0.078                             |                                  | 1             |   | 2.2           | U | 2.1           | U  | 2.1           | U | 2.1           | U | 2.1           | U | 2.0           | U  | 2.1           | U  | 2.1          | UJ |
| Vanadium              | 39                                |                                  | 580           |   | 29.3          |   | 24.9          |    | 24.4          |   | 27.8          |   | 28.5          |   | 22.1          |    | <b>45.8</b>   |    | 34.5         |    |
| Zinc                  | 2,300                             |                                  | 35,000        |   | 72.2          | J | 41.6          |    | 65.0          | J | 108           | J | 89.0          | J | 41.0          |    | 178           | J  | <b>259</b>   | J  |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

J- = Reported value is estimated, actual value is expected to be lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 3  
Norwood Landfill  
Surface and Subsurface Soil Sample  
Inorganic Analytical Results Summary

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | EPA RSL<br>Industrial<br>(mg/kg) | NL-2017-SS-06 | NL-2017-SS-07 | NL-2017-SS-08 | NL-2017-SB-08 | NL-2017-SS-09 | NL-2017-SB-09 | NL-2017-SS-10 | NL-2017-SB-10 |              |    |              |    |              |   |              |    |
|-----------------------|-----------------------------------|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|----|--------------|----|--------------|---|--------------|----|
| CLP Sample Number:    |                                   |                                  | C0AB7         | C0AB8         | C0AB9         | C0AF7         | C0AC0         | C0AF0         | C0AC1         | C0AE8         |              |    |              |    |              |   |              |    |
| Units:                |                                   |                                  | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         | mg/kg         |              |    |              |    |              |   |              |    |
| Sample Date:          |                                   |                                  | 9/28/2017     | 9/28/2017     | 9/28/2017     | 9/28/2017     | 9/27/2017     | 9/27/2017     | 9/27/2017     | 9/27/2017     |              |    |              |    |              |   |              |    |
| Sample Depth:         |                                   |                                  | 0-6           | 0-6           | 0-6           |               | 0-6           | 24-40         | 0-6           | 24-36         |              |    |              |    |              |   |              |    |
| Sample Type:          |                                   |                                  | Field         | Field         | Field         | Field         | Field         | Field         | Field         | Field         |              |    |              |    |              |   |              |    |
| Metal                 | Result                            | Q                                | Result        | Q             | Result        | Q             | Result        | Q             | Result        | Q             |              |    |              |    |              |   |              |    |
| Aluminum              | 77,000                            | 110,000                          | 5700          |               | 16800         |               | 8300          |               | 8580          |               | 12000        |    | 8490         |    | 8090         |   | 8030         |    |
| Antimony              | 3.1                               | 47                               | 0.63          | J             | 1.1           | J             | 0.52          | J             | 0.56          | J             | 0.93         | J  | 0.54         | J  | 0.84         | J | 0.83         | J  |
| Arsenic               | 0.68                              | 3                                | <b>3.9</b>    |               | <b>4.8</b>    |               | <b>3.5</b>    |               | <b>3.6</b>    |               | <b>5.9</b>   |    | <b>4.2</b>   |    | <b>5.1</b>   |   | <b>3.2</b>   |    |
| Barium                | 1,500                             | 22,000                           | 44.1          |               | 92.0          |               | 51.8          |               | 65.3          |               | 159          |    | <b>232</b>   |    | 120          |   | 92.6         |    |
| Beryllium             | 16                                | 230                              | 0.42          |               | 1.0           |               | 0.71          |               | 0.72          |               | 0.88         |    | 0.91         |    | 0.61         |   | 0.63         |    |
| Cadmium               | 7.1                               | 98                               | 1.1           |               | 1.7           |               | 0.75          |               | 0.91          |               | <b>2.3</b>   |    | <b>4.5</b>   |    | 1.3          |   | 1.3          |    |
| Calcium               | NL                                | NL                               | 2350          | J             | 1290          | J             | 892           | J             | <b>3520</b>   |               | 3860         |    | <b>5130</b>  |    | 8450         |   | <b>5840</b>  |    |
| Chromium <sup>1</sup> | 12,000                            | 180,000                          | 13.6          |               | 29.7          |               | 18.0          |               | 17.1          |               | 31.0         |    | 33.9         |    | 25.4         |   | 23.0         |    |
| Cobalt                | 2.3                               | 35                               | <b>4.3</b>    | J             | <b>16.3</b>   | J             | <b>6.8</b>    | J             | <b>6.7</b>    |               | <b>9.8</b>   |    | <b>10.3</b>  |    | <b>6.9</b>   |   | <b>6.9</b>   |    |
| Copper                | 310                               | 4,700                            | 26.4          | J             | 33.1          | J             | 15.0          | J             | 22.2          |               | <b>64.2</b>  |    | <b>100</b>   |    | 50.6         |   | 32.9         |    |
| Iron                  | 5,500                             | 82,000                           | <b>12700</b>  |               | <b>35100</b>  |               | <b>15600</b>  |               | <b>18100</b>  |               | <b>31500</b> |    | <b>46700</b> |    | <b>17900</b> |   | <b>19200</b> |    |
| Lead <sup>2</sup>     | 400                               | 1,200                            | 52.1          |               | 55.1          |               | 20.7          |               | <b>42.0</b>   |               | <b>263</b>   |    | <b>401</b>   |    | 164          |   | <b>131</b>   |    |
| Magnesium             | NL                                | NL                               | 1430          | J             | 3070          | J             | 2180          | J             | 3240          |               | 4760         |    | 3480         |    | 4010         |   | 3590         |    |
| Manganese             | 180                               | 2,600                            | <b>402</b>    | J             | <b>483</b>    | J             | <b>182</b>    | J             | <b>390</b>    |               | <b>456</b>   |    | <b>316</b>   |    | <b>710</b>   |   | <b>525</b>   |    |
| Mercury               | 1.1                               | 4.6                              | 0.096         | J             | 0.075         | J             | 0.042         | J             | <b>0.24</b>   |               | 0.64         |    | <b>0.96</b>  |    | 0.35         |   | <b>0.22</b>  |    |
| Nickel                | 150                               | 2,200                            | 10.6          |               | 17.7          |               | 12.2          |               | 13.0          |               | 29.3         |    | <b>41.7</b>  |    | 18.8         |   | 16.7         |    |
| Potassium             | NL                                | NL                               | 512           | J             | <b>3080</b>   | J             | 1040          | J             | 1130          |               | <b>2560</b>  |    | <b>1500</b>  |    | 1380         |   | <b>1210</b>  |    |
| Selenium              | 390                               | 5,800                            | 2.8           | U             | 3.3           | U             | 2.8           | U             | 2.9           | UJ            | 4.1          | U  | 3.4          | UJ | 3.2          | U | 2.9          | UJ |
| Silver                | 390                               | 5,800                            | 0.70          | J             | 0.89          | J             | 0.39          | J             | 0.62          | J             | 1.3          | J- | <b>2.9</b>   | J- | 0.60         | J | 0.69         | J  |
| Sodium                | NL                                | NL                               | 64.0          | J             | 157           | J             | 84.3          | J             | 141           | J             | 163          | J  | 257          | J  | 117          | J | 116          | J  |
| Thallium              | 0.078                             | 1                                | 2.0           | U             | 2.3           | U             | 2.0           | U             | 2.0           | U             | 2.9          | U  | 2.4          | U  | 2.3          | U | 2.1          | U  |
| Vanadium              | 39                                | 580                              | 22.7          |               | <b>78.1</b>   |               | 29.1          |               | 29.6          |               | <b>41.6</b>  |    | 30.1         |    | 34.3         |   | 38.5         |    |
| Zinc                  | 2,300                             | 35,000                           | 183           | J             | 66.9          | J             | 42.6          | J             | 52.3          |               | 269          |    | <b>398</b>   |    | 190          |   | <b>130</b>   |    |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

J- = Reported value is estimated, actual value is expected to be lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is

approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 3  
Norwood Landfill  
Surface and Subsurface Soil Sample  
Inorganic Analytical Results Summary

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | EPA RSL<br>Industrial<br>(mg/kg) | NL-2017-SS-11 |   | NL-2017-SS-12 |   | NL-2017-SS-13 |    | NL-2017-SB-13 |    | NL-2017-SS-14 |    | NL-2017-SS-15 |    | NL-2017-SS-16 |    |              |    |
|-----------------------|-----------------------------------|----------------------------------|---------------|---|---------------|---|---------------|----|---------------|----|---------------|----|---------------|----|---------------|----|--------------|----|
| CLP Sample Number:    |                                   |                                  | C0AC2         |   | C0AC3         |   | C0AC4         |    | C0AF1         |    | C0AC5         |    | C0AC6         |    | C0AC7         |    |              |    |
| Units:                |                                   |                                  | mg/kg         |   | mg/kg         |   | mg/kg         |    | mg/kg         |    | mg/kg         |    | mg/kg         |    | mg/kg         |    |              |    |
| Sample Date:          |                                   |                                  | 9/28/2017     |   | 9/27/2017     |   | 9/27/2017     |    | 9/27/2017     |    | 9/27/2017     |    | 9/27/2017     |    | 9/27/2017     |    |              |    |
| Sample Depth:         |                                   |                                  | 0-6           |   | 0-6           |   | 0-6           |    | 24-48         |    | 0-6           |    | 0-6           |    | 0-6           |    |              |    |
| Sample Type:          |                                   |                                  | Field         |   | Field         |   | Field         |    | Field         |    | Dup of SS-20  |    | Field         |    | Field         |    |              |    |
| Metal                 | Result                            | Q                                | Result        | Q | Result        | Q | Result        | Q  | Result        | Q  | Result        | Q  | Result        | Q  |               |    |              |    |
| Aluminum              | 77,000                            |                                  | 110,000       |   | 7580          |   | 10600         |    | 7440          |    | 4230          |    | 9210          |    | 7560          |    | 6750         |    |
| Antimony              | 3.1                               |                                  | 47            |   | 0.99          | J | 0.75          | J  | 0.78          | J  | 7.3           | UJ | 1.1           | J  | 1.2           | J  | 0.68         | J  |
| Arsenic               | 0.68                              |                                  | 3             |   | <b>7.3</b>    |   | <b>4.2</b>    |    | <b>2.6</b>    |    | <b>2.0</b>    |    | <b>6.1</b>    |    | <b>3.2</b>    |    | <b>3.1</b>   |    |
| Barium                | 1,500                             |                                  | 22,000        |   | 75.8          |   | 110           |    | 112           |    | <b>235</b>    |    | 116           |    | 108           |    | 90.3         |    |
| Beryllium             | 16                                |                                  | 230           |   | 0.63          |   | 0.74          |    | 0.53          |    | 0.72          |    | 0.79          |    | 0.53          |    | 0.61         |    |
| Cadmium               | 7.1                               |                                  | 98            |   | 1.1           |   | 1.1           |    | 1.2           |    | <b>3.8</b>    |    | <b>2.3</b>    |    | 1.2           |    | 0.99         |    |
| Calcium               | NL                                |                                  | NL            |   | 511           |   | 2920          |    | 2250          |    | <b>3760</b>   |    | 3270          |    | 2820          |    | 1840         |    |
| Chromium <sup>1</sup> | 12,000                            |                                  | 180,000       |   | 16.9          |   | 21.0          |    | 18.0          |    | 54.0          |    | 24.9          |    | 17.5          |    | 18.0         |    |
| Cobalt                | 2.3                               |                                  | 35            |   | <b>5.8</b>    |   | <b>8.7</b>    |    | <b>6.4</b>    |    | <b>7.1</b>    |    | <b>7.0</b>    |    | <b>5.7</b>    |    | <b>5.7</b>   |    |
| Copper                | 310                               |                                  | 4,700         |   | 39.1          |   | 27.2          |    | 31.5          |    | <b>303</b>    |    | 46.7          |    | 29.9          |    | 22.9         |    |
| Iron                  | 5,500                             |                                  | 82,000        |   | <b>17700</b>  |   | <b>22600</b>  |    | <b>16000</b>  |    | <b>51800</b>  |    | <b>32100</b>  |    | <b>16300</b>  |    | <b>16200</b> |    |
| Lead <sup>2</sup>     | 400                               |                                  | 1,200         |   | 251           |   | 87.4          |    | <b>254</b>    |    | <b>1630</b>   |    | 210           |    | 177           |    | 145          |    |
| Magnesium             | NL                                |                                  | NL            |   | 1510          |   | 3100          |    | 2880          |    | 1350          |    | 2490          |    | 3090          |    | 1910         |    |
| Manganese             | 180                               |                                  | 2,600         |   | <b>281</b>    |   | <b>272</b>    |    | <b>207</b>    |    | <b>243</b>    |    | <b>333</b>    |    | <b>201</b>    |    | <b>197</b>   |    |
| Mercury               | 1.1                               |                                  | 4.6           |   | 0.13          |   | 0.11          |    | 0.2           |    | <b>0.58</b>   |    | 0.44          |    | 0.18          |    | 0.37         |    |
| Nickel                | 150                               |                                  | 2,200         |   | 10.4          |   | 16.0          |    | 16.0          |    | 28.1          |    | 16.8          |    | 13.2          |    | 10.5         |    |
| Potassium             | NL                                |                                  | NL            |   | 569           |   | <b>1760</b>   |    | <b>2530</b>   |    | 527           | J  | 1380          |    | <b>1750</b>   |    | 1130         |    |
| Selenium              | 390                               |                                  | 5,800         |   | 3.4           | U | 3.1           | UJ | 2.7           | UJ | 4.3           | UJ | 3.3           | UJ | 3.5           | UJ | 3.5          | UJ |
| Silver                | 390                               |                                  | 5,800         |   | 0.57          | J | 0.77          | J  | 0.67          | J  | <b>2.2</b>    | J- | 1.2           | J- | 0.66          | J  | 0.61         | J  |
| Sodium                | NL                                |                                  | NL            |   | 86.4          | J | 114           | J  | 103           | J  | 253           | J  | 154           | J  | 104           | J  | 74.0         | J  |
| Thallium              | 0.078                             |                                  | 1             |   | 2.4           | U | 2.2           | U  | 2.0           | U  | 3.0           | U  | 2.3           | U  | 2.5           | U  | 2.5          | U  |
| Vanadium              | 39                                |                                  | 580           |   | 35.7          |   | <b>40.1</b>   |    | 28.2          |    | 16.9          |    | <b>51.4</b>   |    | 32.4          |    | 27.3         |    |
| Zinc                  | 2,300                             |                                  | 35,000        |   | 92.2          |   | 67.7          |    | 157           |    | <b>1130</b>   |    | 224           |    | 125           |    | 129          |    |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

J- = Reported value is estimated, actual value is expected to be lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is

approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 3  
Norwood Landfill  
Surface and Subsurface Soil Sample  
Inorganic Analytical Results Summary

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | EPA RSL<br>Industrial<br>(mg/kg) | NL-2017-SS-17 |    | NL-2017-SS-18 |    | NL-2017-SB-18 |    | NL-2017-SS-19 |    | NL-2017-SB-19 |    | NL-2017-SS-20 |    |
|-----------------------|-----------------------------------|----------------------------------|---------------|----|---------------|----|---------------|----|---------------|----|---------------|----|---------------|----|
| CLP Sample Number:    |                                   |                                  | C0AC8         |    | C0AC9         |    | C0AF4         |    | C0AD0         |    | C0AE7         |    | C0AD1         |    |
| Units:                |                                   |                                  | mg/kg         |    | mg/kg         |    | mg/kg         |    | mg/kg         |    | mg/kg         |    | mg/kg         |    |
| Sample Date:          |                                   |                                  | 9/28/2017     |    | 9/28/2017     |    | 9/28/2017     |    | 9/27/2017     |    | 9/27/2017     |    | 9/27/2017     |    |
| Sample Depth:         |                                   |                                  | 0-6           |    | 0-6           |    | 24-48         |    | 0-6           |    | 24-30         |    | 0-6           |    |
| Sample Type:          |                                   |                                  | Background    |    | Background    |    | Background    |    | Field         |    | Field         |    | Dup of SS-14  |    |
| Metal                 | Result                            | Q                                | Result        | Q  | Result        | Q  | Result        | Q  | Result        | Q  | Result        | Q  | Result        | Q  |
| Aluminum              | 77,000                            | 110,000                          | 7970          |    | 5970          |    | 9310          |    | 7120          |    | 10100         |    | 8220          |    |
| Antimony              | 3.1                               | 47                               | 1.1           | J  | 0.72          | J  | 0.58          | J  | 1.8           | J  | 0.90          | J  | 0.95          | J  |
| Arsenic               | 0.68                              | 3                                | <b>5.9</b>    |    | <b>4.5</b>    |    | <b>3.5</b>    |    | <b>7.8</b>    |    | <b>5.0</b>    |    | <b>5.0</b>    |    |
| Barium                | 1,500                             | 22,000                           | 55.6          |    | 63.5          |    | 36.7          |    | 139           |    | 79.8          |    | 112           |    |
| Beryllium             | 16                                | 230                              | 0.63          |    | 0.45          |    | 0.86          |    | 0.63          |    | 0.83          |    | 0.60          |    |
| Cadmium               | 7.1                               | 98                               | 0.67          |    | 0.70          |    | 1.0           |    | 1.6           |    | 1.5           |    | 1.8           |    |
| Calcium               | NL                                | NL                               | 1610          |    | 4600          |    | 36.0          | J  | 2760          |    | <b>4640</b>   |    | 6490          |    |
| Chromium <sup>1</sup> | 12,000                            | 180,000                          | 15.8          |    | 16.9          |    | 22.0          |    | 22.2          |    | 24.5          |    | 20.3          |    |
| Cobalt                | 2.3                               | 35                               | <b>4.4</b>    |    | <b>3.8</b>    | J  | <b>8.0</b>    |    | <b>6.0</b>    |    | <b>7.8</b>    |    | <b>6.5</b>    |    |
| Copper                | 310                               | 4,700                            | 18.3          |    | 19.8          |    | 14.6          |    | 54.0          |    | 31.1          |    | 39.5          |    |
| Iron                  | 5,500                             | 82,000                           | <b>14300</b>  |    | <b>11600</b>  |    | <b>23100</b>  |    | <b>19400</b>  |    | <b>25500</b>  |    | <b>20700</b>  |    |
| Lead <sup>2</sup>     | 400                               | 1,200                            | 84.4          |    | 74.4          |    | 8.2           |    | <b>358</b>    |    | <b>105</b>    |    | 193           |    |
| Magnesium             | NL                                | NL                               | 1940          |    | 3560          |    | 2510          |    | 2410          |    | 3890          |    | 4600          |    |
| Manganese             | 180                               | 2,600                            | 179           |    | <b>206</b>    |    | 145           |    | <b>280</b>    |    | <b>252</b>    |    | 287           |    |
| Mercury               | 1.1                               | 4.6                              | 0.18          |    | 0.38          |    | 0.11          | UJ | 0.2           |    | 0.12          | UJ | 0.42          |    |
| Nickel                | 150                               | 2,200                            | 11.5          |    | 11.0          |    | 11.7          |    | 16.5          |    | 13.9          |    | 15.5          |    |
| Potassium             | NL                                | NL                               | 515           |    | 173           | J  | 380           | J  | 1250          |    | 902           |    | 1330          |    |
| Selenium              | 390                               | 5,800                            | 2.8           | UJ | 3.1           | UJ | 3.0           | UJ | 3.9           | UJ | 3.3           | UJ | 3.1           | UJ |
| Silver                | 390                               | 5,800                            | 0.54          | J  | 0.51          | J  | 0.72          | J  | 0.95          | J  | 0.92          | J  | 0.84          | J  |
| Sodium                | NL                                | NL                               | 79.4          | J  | 67.3          | J  | 188           | J  | 146           | J  | 182           | J  | 125           | J  |
| Thallium              | 0.078                             | 1                                | 2.0           | U  | 2.2           | U  | 2.2           | U  | 2.8           | U  | 2.3           | U  | 2.2           | U  |
| Vanadium              | 39                                | 580                              | 38.1          |    | 33.7          |    | 37.2          |    | <b>42.4</b>   |    | <b>40.2</b>   |    | <b>39.4</b>   |    |
| Zinc                  | 2,300                             | 35,000                           | 62.3          |    | 92.2          |    | 29.8          |    | 229           |    | <b>98.4</b>   |    | 194           |    |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

J- = Reported value is estimated, actual value is expected to be lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is

approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 4  
Norwood Landfill  
Surface Water Samples Inorganics Analytical Results Summary

| Sample ID:         | EPA BTAG<br>Freshwater<br>(µg/L) | NL-2017-SW-01 | NL-2017-SW-02 | NL-2017-SW-03 | NL-2017-SW-04 | NL-2017-SW-05 | NL-2017-SW-06 | NL-2017-SW-07 | NL-2017-SW-08 | NL-2017-SW-09 | NL-2017-SW-10 | NL-2017-SW-11 | NL-2017-SW-12 |   |             |   |             |   |             |   |             |   |             |   |             |   |
|--------------------|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|
| CLP Sample Number: |                                  | MC0AA0        | MC0AA1        | MC0AA2        | MC0AA3        | MC0AA4        | MC0AA5        | MC0AA6        | MC0AA7        | MC0AA8        | MC0AA9        | MC0AB0        | MC0AB1        |   |             |   |             |   |             |   |             |   |             |   |             |   |
| Units:             |                                  | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          | µg/L          |   |             |   |             |   |             |   |             |   |             |   |             |   |
| Sample Date:       |                                  | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     | 9/26/2017     |   |             |   |             |   |             |   |             |   |             |   |             |   |
| Sample Type:       |                                  | Background    | Background    | Background    | Dup of SW-12  | Field         | Field         | Field         | Field         | Field         | Field         | Field         | Dup of SW-04  |   |             |   |             |   |             |   |             |   |             |   |             |   |
| Metals             | Result                           | Q             | Result        | Q             | Result        | Q             | Result        | Q             | Result        | Q             | Result        | Q             | Result        | Q |             |   |             |   |             |   |             |   |             |   |             |   |
| Aluminum           | 87                               |               | <b>170</b>    |               | <b>363</b>    |               | <b>456</b>    |               | <b>201</b>    |               | <b>277</b>    |               | <b>595</b>    |   | <b>232</b>  |   | <b>319</b>  |   | <b>289</b>  |   | <b>321</b>  |   | <b>674</b>  |   | <b>202</b>  |   |
| Antimony           | 30                               |               | 2.0           | U             | 2.0           | U             | 2.0           | U             | 2.0           | U             | 2.0           | U             | 2.0           | U | 2.0         | U | 2.0         | U | 2.0         | U | 2.0         | U | 2.0         | U | 2.0         | U |
| Arsenic            | 5                                |               | 1.8           |               | 1.6           |               | 1.7           |               | 1.3           |               | 1.2           |               | 1.9           |   | 1.4         |   | 1.6         |   | 1.5         |   | 1.2         |   | 2.2         |   | 1.4         |   |
| Barium             | 4                                |               | <b>75.2</b>   |               | <b>75.3</b>   |               | <b>69.5</b>   |               | <b>54.0</b>   |               | <b>65.9</b>   |               | <b>75.3</b>   |   | <b>66.8</b> |   | <b>65.9</b> |   | <b>61.1</b> |   | <b>57.8</b> |   | <b>60.7</b> |   | <b>54.8</b> |   |
| Beryllium          | 0.66                             |               | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U |
| Cadmium            | 0.25                             |               | 0.12          | J             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 0.22        | J | 1.0         | U |
| Calcium            | 116,000                          |               | 34500         |               | 33700         |               | 31200         |               | 27600         |               | 30600         |               | 32700         |   | 31700       |   | 30700       |   | 29500       |   | 28200       |   | 28300       |   | 28200       |   |
| Chromium           | 85                               |               | 2.0           | U             | 2.0           | U             | 2.0           | U             | 2.0           | U             | 2.5           |               | 2.0           | U | 2.0         | U | 2.0         | U | 2.0         | U | 2.0         | U | 24.3        |   | 2.0         | U |
| Cobalt             | 23                               |               | 0.62          | J             | 0.75          | J             | 0.73          | J             | 0.37          | J             | 0.54          | J             | 1.0           |   | 0.56        | J | 0.70        | J | 0.61        | J | 0.54        | J | 6.0         |   | 0.41        | J |
| Copper             | 9                                |               | 3.4           |               | 4.2           |               | 3.9           |               | 2.7           |               | 3.3           |               | 5.0           |   | 2.9         |   | 3.7         |   | 3.3         |   | 3.6         |   | <b>15.7</b> |   | 3.0         |   |
| Iron               | 300                              |               | <b>1450</b>   |               | <b>1460</b>   |               | <b>1560</b>   |               | <b>768</b>    |               | <b>1220</b>   |               | <b>2120</b>   |   | <b>1160</b> |   | <b>1500</b> |   | <b>1340</b> |   | <b>1290</b> |   | <b>2130</b> |   | <b>812</b>  |   |
| Lead               | 2.5                              |               | 2.5           |               | 4.5           |               | 3.9           |               | 1.9           |               | 3.1           |               | 6.0           |   | 2.3         |   | 3.6         |   | 2.9         |   | 3.1         |   | <b>24.8</b> |   | 2.2         |   |
| Magnesium          | 82,000                           |               | 14200         |               | 13800         |               | 12700         |               | 10800         |               | 12200         |               | 13300         |   | 12600       |   | 12200       |   | 11700       |   | 11000       |   | 10900       |   | 11200       |   |
| Manganese          | 120                              |               | <b>255</b>    |               | <b>245</b>    |               | <b>211</b>    |               | <b>136</b>    |               | <b>182</b>    |               | <b>297</b>    |   | <b>228</b>  |   | <b>244</b>  |   | <b>231</b>  |   | <b>162</b>  |   | <b>218</b>  |   | <b>141</b>  |   |
| Mercury            | 0.026                            |               | 0.20          | U             | 0.20          | U             | 0.20          | U             | 0.20          | U             | 0.20          | U             | 0.20          | U | 0.20        | U | 0.20        | U | 0.20        | U | 0.20        | U | 0.20        | U | 0.20        | U |
| Nickel             | 52                               |               | 2.0           |               | 2.4           |               | 2.1           |               | 1.7           |               | 1.9           |               | 2.7           |   | 1.9         |   | 2.0         |   | 2.1         |   | 2.0         |   | <b>18.1</b> |   | 1.8         |   |
| Potassium          | 53,000                           |               | 5620          |               | 4820          |               | 4240          |               | 3920          |               | 4070          |               | 4480          |   | 4340        |   | 4150        |   | 3980        |   | 3850        |   | 3830        |   | 4110        |   |
| Selenium           | 1                                |               | 1.2           | J             | 5.0           | U             | 5.0           | U             | 5.0           | U             | 5.0           | U             | 5.0           | U | 5.0         | U | 5.0         | U | 5.0         | U | 5.0         | U | 5.0         | U | 5.0         | U |
| Silver             | 3.2                              |               | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U |
| Sodium             | 680,000                          |               | 46000         |               | 42300         |               | 38900         |               | 35400         |               | 37600         |               | 40200         |   | 39200       |   | 37800       |   | 36800       |   | 35400       |   | 35500       |   | 37300       |   |
| Thallium           | 0.8                              |               | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U             | 1.0           | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U | 1.0         | U |
| Vanadium           | 20                               |               | 1.4           | J             | 2.3           | J             | 2.4           | J             | 1.9           | J             | 2.1           | J             | 3.1           | J | 1.8         | J | 2.4         | J | 2.1         | J | 2.3         | J | 2.8         | J | 1.8         | J |
| Zinc               | 120                              |               | 40.6          |               | 22.7          |               | 17.2          |               | 7.2           |               | 12.1          |               | 20.0          |   | 37.5        |   | 27.1        |   | 14.0        |   | 13.1        |   | 104         |   | 9.6         |   |

Notes:  
 Data compared to EPA BTAG freshwater screening criteria (1997)  
 Bold values indicate exceedance of BTAG criteria  
 Red values indicate 3x background values (or above background RDL if background is non-detect)  
 µg/L = micrograms per liter  
 Q = Data qualifier  
 U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  
 J = Reported value is estimated; actual value may be higher or lower





Table 6  
Norwood Landfill  
Sediment Samples  
Inorganic Analytical Results Summary

| Sample ID:         | EPA BTAG<br>Freshwater<br>(mg/kg) | NL-2017-SD-01 |        | NL-2017-SD-02 |        | NL-2017-SD-03 |        | NL-2017-SD-04 |        | NL-2017-SD-05 |        | NL-2017-SD-06 |        | NL-2017-SD-07 |        | NL-2017-SD-08 |        | NL-2017-SD-09 |        | NL-2017-SD-10 |        | NL-2017-SD-11 |        | NL-2017-SD-12 |        |              |  |
|--------------------|-----------------------------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|--------------|--|
| CLP Sample Number: |                                   | MC0AD2        |        | MC0AD3        |        | MC0AD4        |        | MC0AD5        |        | MC0AD6        |        | MC0AD7        |        | MC0AD8        |        | MC0AD9        |        | MC0AE0        |        | MC0AE1        |        | MC0AE2        |        | MC0AE3        |        |              |  |
| Units:             |                                   | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg         |        | mg/Kg        |  |
| Sample Date:       |                                   | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017     |        | 9/26/2017    |  |
| Sample Type:       |                                   | Background    |        | Field         |        | Background    |        | Dup of SD-12  |        | Field         |        | Field         |        | Field         |        | Field         |        | Field         |        | Field         |        | Field         |        | Field         |        | Dup of SD-04 |  |
| Metals             | Result                            | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q             | Result | Q            |  |
| Aluminum           | NL                                | 12300         |        | 10900         |        | 17400         |        | 13900         |        | 13800         |        | 15700         |        | 13000         |        | 14200         |        | 11800         |        | 11800         |        | 11900         |        | 25200         |        |              |  |
| Antimony           | 2                                 | 6.5           | U      | 1.2           | J      | 12.1          | U      | 0.90          | J      | 0.72          | J      | 11.0          | U      | 0.77          | J      | 0.69          | J      | 1.2           | J      | 13.8          | U      | 14.2          | U      | 1.3           | J      |              |  |
| Arsenic            | 9.8                               | 4.2           |        | 9.6           |        | 15.0          |        | 12.5          |        | 10.4          |        | 19.3          |        | 9.7           |        | 10.2          |        | 15.1          |        | 9.9           |        | 9.4           |        | 26.6          |        |              |  |
| Barium             | NL                                | 109           |        | 122           |        | 177           |        | 136           |        | 154           |        | 196           |        | 150           |        | 160           |        | 141           |        | 140           |        | 151           |        | 223           |        |              |  |
| Beryllium          | NL                                | 1.0           |        | 0.86          |        | 1.5           |        | 1.2           |        | 1.2           |        | 1.5           |        | 1.2           |        | 1.2           |        | 1.1           |        | 1.1           | J      | 1.1           | J      | 2.2           |        |              |  |
| Cadmium            | 0.99                              | 1.4           |        | 1.7           |        | 2.3           |        | 1.6           |        | 3.0           |        | 4.1           |        | 2.8           |        | 3.2           |        | 2.0           |        | 1.9           |        | 3.0           |        | 2.8           |        |              |  |
| Calcium            | NL                                | 1100          | J      | 4040          | J      | 4210          | J      | 2390          | J      | 6980          | J      | 3780          | J      | 4740          | J      | 4940          | J      | 4850          | J      | 4520          | J      | 5070          | J      | 2580          | J      |              |  |
| Chromium           | 43.4                              | 26.5          |        | 33.6          |        | 71.1          |        | 63.4          |        | 44.2          |        | 103           |        | 44.3          |        | 48.8          |        | 44.0          |        | 44.9          |        | 43.1          |        | 115           |        |              |  |
| Cobalt             | 50                                | 9.9           | J      | 11.2          | J      | 19.4          | J      | 16.2          | J      | 15.6          | J      | 10.7          | J      | 14.6          | J      | 16.5          | J      | 13.4          | J      | 12.3          | J      | 12.9          | J      | 22.9          | J      |              |  |
| Copper             | 31.6                              | 22.9          | J      | 53.7          | J      | 71.2          | J      | 52.1          | J      | 69.4          | J      | 111           | J      | 66.2          | J      | 70.6          | J      | 67.7          | J      | 61.6          | J      | 64.1          | J      | 79.1          | J      |              |  |
| Iron               | 20,000                            | 25100         |        | 27100         |        | 33300         |        | 24900         |        | 30500         |        | 36300         |        | 30300         |        | 32100         |        | 30700         |        | 30100         |        | 30000         |        | 37700         |        |              |  |
| Lead               | 35.8                              | 23.5          |        | 73.3          |        | 105           |        | 82.7          |        | 91.5          |        | 214           |        | 86.6          |        | 94.9          |        | 78.9          |        | 74.5          |        | 77.4          |        | 172           |        |              |  |
| Magnesium          | NL                                | 3760          | J      | 5980          | J      | 6560          | J      | 4520          | J      | 6670          | J      | 5870          | J      | 6050          | J      | 6470          | J      | 5940          | J      | 5790          | J      | 5720          | J      | 6650          | J      |              |  |
| Manganese          | 460                               | 216           | J      | 747           | J      | 697           | J      | 443           | J      | 807           | J      | 601           | J      | 770           | J      | 848           | J      | 718           | J      | 789           | J      | 793           | J      | 420           | J      |              |  |
| Mercury            | 0.18                              | 0.14          | J      | 0.22          |        | 0.31          |        | 0.55          |        | 0.28          |        | 0.84          |        | 0.29          |        | 0.33          |        | 0.3           |        | 0.28          | J      | 0.28          |        | 1.1           |        |              |  |
| Nickel             | 22.7                              | 18.4          |        | 25.8          |        | 36.1          |        | 29.4          |        | 32.4          |        | 41.2          |        | 30.5          |        | 34.7          |        | 26.9          |        | 25.0          |        | 26.2          |        | 43.1          |        |              |  |
| Potassium          | NL                                | 947           | J      | 2500          | J      | 2000          | J      | 1260          | J      | 2060          | J      | 1840          | J      | 1960          | J      | 2150          | J      | 1820          | J      | 1790          | J      | 1960          | J      | 1800          | J      |              |  |
| Selenium           | 2                                 | 3.8           | UJ     | 4.7           | UJ     | 7.1           | U      | 5.0           | UJ     | 2.8           | U      | 6.4           | U      | 3.1           | U      | 2.9           | U      | 7.6           | U      | 8.0           | U      | 8.3           | U      | 8.3           | U      |              |  |
| Silver             | 1                                 | 0.80          | J      | 1.2           | J      | 1.3           | J-     | 1.0           | J      | 1.3           | J-     | 4.6           | J-     | 1.3           | J-     | 1.4           | J-     | 1.3           | J      | 1.2           | J-     | 2.4           | R      | 1.3           | J-     |              |  |
| Sodium             | NL                                | 196           | J      | 248           | J      | 343           | J      | 251           | J      | 363           | J      | 324           | J      | 348           | J      | 376           | J      | 325           | J      | 318           | J      | 355           | J      | 394           | J      |              |  |
| Thallium           | NL                                | 2.7           | U      | 3.4           | U      | 5.1           | U      | 3.6           | U      | 2.0           | U      | 4.6           | U      | 2.2           | U      | 2.1           | U      | 5.4           | U      | 5.7           | U      | 5.9           | U      | 5.9           | U      |              |  |
| Vanadium           | NL                                | 38.0          |        | 39.5          |        | 53.5          |        | 42.8          |        | 40.6          |        | 58.1          |        | 38.8          |        | 42.0          |        | 39.0          |        | 37.5          |        | 38.0          |        | 71.7          |        |              |  |
| Zinc               | 121                               | 64.8          | J      | 244           | J      | 265           | J      | 174           | J      | 279           | J      | 418           | J      | 265           | J      | 284           | J      | 262           | J      | 242           | J      | 239           | J      | 311           | J      |              |  |

Notes:  
 Data compared to EPA BTAG freshwater sediment screening criteria (1997)  
 Bold values indicate exceedance of BTAG criteria  
 Red values indicate 3x background values (or above background RDL if background is non-detect)  
 J = Reported value is estimated; actual value may be higher or lower  
 J- = Reported value is estimated, actual value is expected to be lower  
 mg/kg = milligrams per kilogram  
 NL = No listed value  
 Q = Qualifier  
 U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  
 UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 7  
Norwood Landfill  
Residential Surface Soil Samples  
VOC and SVOC Analytical Results Summary

| Sample Number:             | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-01  |     | NL-RS-01D          |     | NL-RS-02  |     | NL-RS-03  |     | NL-RS-04  |     | NL-RS-05  |     |   |
|----------------------------|-----------------------------------|-----------|-----|--------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|---|
| CLP Sample Number:         |                                   | C0AG1     |     | C0AH1              |     | C0AH5     |     | C0AH4     |     | C0AH3     |     | C0AH2     |     |   |
| Units:                     |                                   | µg/kg     |     | µg/kg              |     | µg/kg     |     | µg/kg     |     | µg/kg     |     | µg/kg     |     |   |
| Sample Date:               |                                   | 5/23/2018 |     | 5/23/2018          |     | 5/23/2018 |     | 5/23/2018 |     | 5/23/2018 |     | 5/23/2018 |     |   |
| Sample Depth:              |                                   | 0-12      |     | 0-12               |     | 0-12      |     | 0-12      |     | 0-12      |     | 0-12      |     |   |
| Sample Type:               |                                   | Field     |     | Dup of NL-RP-SS-01 |     | Field     |     | Field     |     | Field     |     | Field     |     |   |
| VOCs                       |                                   | Result    | Q   | Result             | Q   | Result    | Q   | Result    | Q   | Result    | Q   | Result    | Q   |   |
| Acetone                    | 6,100,000                         |           | 14  | U                  | 14  | U         | 12  | U         | 15  | U         | 68  |           | 12  | U |
| 2-Hexanone                 | 20,000                            |           | 16  |                    | 18  |           | 12  | U         | 15  | U         | 13  | U         | 12  | U |
| 2-Butanone                 | 2,700,000                         |           | 14  | U                  | 14  | U         | 12  | U         | 15  | U         | 8   | J         | 12  | U |
| Chloroform                 | 320                               |           | 6.9 | U                  | 7.2 | U         | 4.1 | J         | 7.7 | U         | 6.7 | U         | 6.2 | U |
| 1,1,1-Trichloroethane      | 810,000                           |           | 2.2 | J                  | 3.8 | J         | 4.3 | J         | 7.7 | U         | 3.8 | J         | 6.2 | U |
| Styrene                    | 600,000                           |           | 6.9 | U                  | 7.2 | U         | 5.9 | U         | 7.7 | U         | 6.7 | U         | 6.2 | U |
| SVOCs (PAHs by SIM)        |                                   |           |     |                    |     |           |     |           |     |           |     |           |     |   |
| Naphthalene                | 3,800                             |           | 3.3 | J                  | 6.3 |           | 1.7 | J         | 2.5 | J         | 2.5 | J         | 2.2 | J |
| 2-Methylnaphthalene        | 24,000                            |           | 2.7 | J                  | 4.7 |           | 1.5 | J         | 3.4 | J         | 3.5 | J         | 2.7 | J |
| Acenaphthylene             | NL                                |           | 7.3 |                    | 9.0 |           | 2.6 | J         | 7.0 |           | 2.1 | J         | 5.3 |   |
| Acenaphthene               | 360,000                           |           | 5.9 |                    | 13  |           | 1.7 | J         | 1.0 | J         | 1.1 | J         | 12  |   |
| Fluorene                   | 240,000                           |           | 7.6 |                    | 12  |           | 4.5 | U         | 5.1 | U         | 4.5 | U         | 13  |   |
| Pentachlorophenol          | 1,000                             |           | 9.4 | U                  | 1.7 | J         | 9.1 | U         | 10  | U         | 9.1 | U         | 9.1 | U |
| Phenanthrene               | NL                                |           | 110 |                    | 160 |           | 30  |           | 20  |           | 17  |           | 250 |   |
| Anthracene                 | 1,800,000                         |           | 25  |                    | 32  |           | 6.8 |           | 5.8 |           | 3.3 | J         | 29  |   |
| Fluoranthene               | 240,000                           |           | 250 |                    | 350 |           | 95  |           | 66  |           | 49  |           | 660 |   |
| Pyrene                     | 180,000                           |           | 190 |                    | 260 |           | 62  |           | 56  |           | 39  |           | 480 |   |
| Benzo(a)anthracene         | 1,100                             |           | 130 |                    | 190 |           | 41  |           | 34  |           | 25  |           | 300 |   |
| Chrysene                   | 110,000                           |           | 120 |                    | 170 |           | 40  |           | 42  |           | 28  |           | 340 |   |
| Benzo(b)fluoranthene       | 1,100                             |           | 170 |                    | 280 |           | 59  |           | 71  |           | 40  |           | 460 |   |
| Benzo(k)fluoranthene       | 11,000                            |           | 46  |                    | 64  |           | 22  |           | 24  |           | 12  |           | 170 |   |
| Benzo(a)pyrene             | 110                               |           | 120 |                    | 190 |           | 45  |           | 44  |           | 29  |           | 320 |   |
| Indeno(1,2,3-cd)pyrene     | 1,100                             |           | 53  |                    | 54  |           | 17  |           | 18  |           | 9.5 |           | 220 |   |
| Dibenzo(a,h)anthracene     | 110                               |           | 4.6 | U                  | 4.5 | U         | 4.5 | U         | 5.1 | U         | 4.5 | U         | 4.5 | U |
| Benzo(g,h,i)perylene       | NL                                |           | 45  | J                  | 44  | J         | 14  | J         | 15  | J         | 8.5 | J         | 240 |   |
| SVOCs                      |                                   |           |     |                    |     |           |     |           |     |           |     |           |     |   |
| naphthalene                | 3,800                             |           | 240 | U                  | 230 | U         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| 2-Methylnaphthalene        | 24,000                            |           | 240 | U                  | 230 | U         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| Acenaphthene               | 360,000                           |           | 240 | U                  | 230 | U         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| Dibenzofuran               | 7,300                             |           | 240 | U                  | 230 | U         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| Fluorene                   | 240,000                           |           | 240 | U                  | 230 | U         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| Phenanthrene               | NL                                |           | 140 | J                  | 180 | J         | 38  | J         | 260 | U         | 230 | U         | 230 |   |
| Anthracene                 | 1,800,000                         |           | 36  | J                  | 36  | J         | 230 | U         | 260 | U         | 230 | U         | 28  | J |
| Carbazole                  | NL                                |           | 460 | U                  | 450 | U         | 450 | U         | 510 | U         | 450 | U         | 450 | U |
| Di-n-butylphthalate        | 630,000                           |           | 43  | J                  | 44  | J         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| Fluoranthene               | 240,000                           |           | 280 | J                  | 390 | J         | 100 | J         | 89  | J         | 61  | J         | 630 |   |
| Pyrene                     | 180,000                           |           | 250 |                    | 310 |           | 85  | J         | 66  | J         | 46  | J         | 460 |   |
| Butylbenzylphthalate       | 290,000                           |           | 240 | U                  | 230 | U         | 230 | U         | 260 | U         | 230 | U         | 230 | U |
| Benzo(a)anthracene         | 1,100                             |           | 150 | J                  | 200 | J         | 49  | J         | 41  | J         | 31  | J         | 270 |   |
| Chrysene                   | 110,000                           |           | 170 | J                  | 220 | J         | 60  | J         | 54  | J         | 35  | J         | 360 |   |
| bis(2-Ethylhexyl)phthalate | 39,000                            |           | 130 | J                  | 410 | J         | 340 | J         | 84  | J         | 32  | J         | 370 | J |
| Benzo(b)fluoranthene       | 1,100                             |           | 200 | J                  | 300 | J         | 93  | J         | 90  | J         | 50  | J         | 480 |   |
| Benzo(k)fluoranthene       | 11,000                            |           | 79  | J                  | 110 | J         | 26  | J         | 27  | J         | 230 | U         | 180 | J |
| Benzo(a)pyrene             | 110                               |           | 150 | J                  | 210 | J         | 53  | J         | 52  | J         | 31  | J         | 310 |   |
| Indeno(1,2,3-cd)pyrene     | 1,100                             |           | 93  | J                  | 140 | J         | 34  | J         | 34  | J         | 230 | U         | 200 | J |
| Benzo(g,h,i)perylene       | NL                                |           | 85  | J                  | 140 | J         | 36  | J         | 36  | J         | 25  | J         | 220 | J |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

J+ = Reported value is estimated; actual value is expected to be higher

J- = Reported value is estimated, actual value is expected to be lower

NL = No listed value

Q = Qualifier

R = Data were rejected. The sample jar for this specific sample was broken in transit. Soil remaining in sealed baggie was analyzed.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

Table 7  
Norwood Landfill  
Residential Surface Soil Samples  
VOC and SVOC Analytical Results Summary

| Sample Number:        | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-06  |        | NL-RS-07  |        | NL-RS-08  |        | NL-RS-09  |        | NL-RS-10  |        | NL-RS-11  |   |
|-----------------------|-----------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|---|
| CLP Sample Number:    |                                   | C0AH1     |        | C0AH0     |        | C0AG9     |        | C0AG8     |        | C0AG7     |        | C0AG6     |   |
| Units:                |                                   | µg/kg     |        | µg/kg     |        | µg/kg     |        | µg/kg     |        | µg/kg     |        | µg/kg     |   |
| Sample Date:          |                                   | 5/23/2018 |        | 5/23/2018 |        | 5/23/2018 |        | 5/23/2018 |        | 5/23/2018 |        | 5/23/2018 |   |
| Sample Depth:         |                                   | 0-12      |        | 0-12      |        | 0-12      |        | 0-12      |        | 0-12      |        | 0-12      |   |
| Sample Type:          |                                   | Field     |        | Field     |        | Field     |        | Field     |        | Field     |        | Field     |   |
| VOCs                  | Result                            | Q         | Result | Q         | Result | Q         | Result | Q         | Result | Q         | Result | Q         |   |
| Acetone               | 6,100,000                         | 46        |        | 13        | U      | 13        | U      | 14        | U      | 13        | U      | 12        | U |
| 2-Hexanone            | 20,000                            | 17        | U      | 13        | U      | 13        | U      | 14        | U      | 13        | U      | 12        | U |
| 2-Butanone            | 2,700,000                         | 11        | J      | 13        | U      | 13        | U      | 14        | U      | 13        | U      | 12        | U |
| Chloroform            | 320                               | 8.4       | U      | 6.6       | U      | 6.6       | U      | 6.9       | U      | 6.4       | U      | 6         | U |
| 1,1,1-Trichloroethane | 810,000                           | 8.4       | U      | 6.6       | U      | 1.6       | J      | 6.9       | U      | 2.4       | J      | 3.3       | J |
| Styrene               | 600,000                           | 19        | J      | 6.6       | U      | 6.6       | U      | 25        | J      | 6.4       | U      | 6         | U |

|                        |           |     |   |     |   |      |   |     |   |     |   |     |   |
|------------------------|-----------|-----|---|-----|---|------|---|-----|---|-----|---|-----|---|
| Naphthalene            | 3,800     | 2.4 | J | 2.3 | J | 1.5  | J | 1.7 | J | 1.7 | J | 4.5 |   |
| 2-Methylnaphthalene    | 24,000    | 3.5 | J | 2.7 | J | 1.6  | J | 2.1 | J | 2.0 | J | 5.2 |   |
| Acenaphthylene         | NL        | 2.8 | J | 2.8 | J | 2.8  | J | 2.1 | J | 2.2 | J | 5.0 |   |
| Acenaphthene           | 360,000   | 6.4 |   | 11  |   | 0.77 | J | 1.1 | J | 1.7 | J | 13  |   |
| Fluorene               | 240,000   | 6.1 |   | 13  |   | 4.6  | U | 4.8 | U | 4.5 | U | 11  |   |
| Pentachlorophenol      | 1,000     | 11  | U | 9.3 | U | 9.3  | U | 9.7 | U | 9.1 | U | 8.9 | U |
| Phenanthrene           | NL        | 73  |   | 180 |   | 12   |   | 18  |   | 25  |   | 160 |   |
| Anthracene             | 1,800,000 | 14  |   | 25  |   | 2.9  | J | 4.0 | J | 5.0 |   | 24  |   |
| Fluoranthene           | 240,000   | 220 |   | 370 |   | 45   |   | 54  |   | 67  |   | 430 |   |
| Pyrene                 | 180,000   | 150 |   | 240 |   | 39   |   | 45  |   | 55  |   | 300 |   |
| Benzo(a)anthracene     | 1,100     | 78  |   | 150 |   | 24   |   | 28  |   | 36  |   | 200 |   |
| Chrysene               | 110,000   | 100 |   | 140 |   | 30   |   | 30  |   | 38  |   | 210 |   |
| Benzo(b)fluoranthene   | 1,100     | 140 |   | 210 |   | 42   |   | 46  |   | 52  |   | 290 |   |
| Benzo(k)fluoranthene   | 11,000    | 34  |   | 56  |   | 15   |   | 14  |   | 15  |   | 110 |   |
| Benzo(a)pyrene         | 110       | 77  |   | 130 |   | 33   |   | 34  |   | 38  |   | 190 |   |
| Indeno(1,2,3-cd)pyrene | 1,100     | 33  |   | 50  |   | 15   |   | 16  |   | 18  |   | 68  |   |
| Dibenzo(a,h)anthracene | 110       | 5.2 | U | 4.6 | U | 4.6  | U | 4.8 | U | 4.5 | U | 4.4 | U |
| Benzo(g,h,i)perylene   | NL        | 28  | J | 44  | J | 14   | J | 14  | J | 16  | J | 65  | J |

|                            |           |      |   |     |   |     |   |     |   |     |   |     |   |
|----------------------------|-----------|------|---|-----|---|-----|---|-----|---|-----|---|-----|---|
| naphthalene                | 3,800     | 270  | U | 240 | U | 240 | U | 250 | U | 230 | U | 230 | U |
| 2-Methylnaphthalene        | 24,000    | 270  | U | 240 | U | 240 | U | 250 | U | 230 | U | 230 | U |
| Acenaphthene               | 360,000   | 270  | U | 240 | U | 240 | U | 250 | U | 230 | U | 230 | U |
| Dibenzofuran               | 7,300     | 270  | U | 240 | U | 240 | U | 250 | U | 230 | U | 230 | U |
| Fluorene                   | 240,000   | 270  | U | 240 | U | 240 | U | 250 | U | 230 | U | 230 | U |
| Phenanthrene               | NL        | 110  | J | 210 | J | 240 | U | 25  | J | 36  | J | 210 | J |
| Anthracene                 | 1,800,000 | 270  | U | 30  | J | 240 | U | 250 | U | 230 | U | 33  | J |
| Carbazole                  | NL        | 520  | U | 460 | U | 460 | U | 480 | U | 450 | U | 440 | U |
| Di-n-butylphthalate        | 630,000   | 270  | U | 240 | U | 240 | U | 250 | U | 230 | U | 25  | J |
| Fluoranthene               | 240,000   | 250  | J | 410 | J | 48  | J | 64  | J | 96  | J | 580 |   |
| Pyrene                     | 180,000   | 170  | J | 310 |   | 44  | J | 62  | J | 89  | J | 460 |   |
| Butylbenzylphthalate       | 290,000   | 270  | U | 240 | U | 48  | J | 250 | U | 230 | U | 230 | U |
| Benzo(a)anthracene         | 1,100     | 110  | J | 150 | J | 29  | J | 36  | J | 50  | J | 250 |   |
| Chrysene                   | 110,000   | 130  | J | 190 | J | 34  | J | 44  | J | 47  | J | 310 |   |
| bis(2-Ethylhexyl)phthalate | 39,000    | 6800 | J | 96  | J | 44  | J | 56  | J | 49  | J | 150 | J |
| Benzo(b)fluoranthene       | 1,100     | 180  | J | 230 | J | 59  | J | 56  | J | 79  | J | 410 |   |
| Benzo(k)fluoranthene       | 11,000    | 69   | J | 88  | J | 240 | U | 250 | U | 27  | J | 140 | J |
| Benzo(a)pyrene             | 110       | 110  | J | 150 | J | 32  | J | 40  | J | 51  | J | 250 |   |
| Indeno(1,2,3-cd)pyrene     | 1,100     | 64   | J | 89  | J | 240 | U | 28  | J | 32  | J | 160 | J |
| Benzo(g,h,i)perylene       | NL        | 73   | J | 90  | J | 28  | J | 28  | J | 32  | J | 180 | J |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

J+ = Reported value is estimated; actual value is expected to be higher

J- = Reported value is estimated, actual value is expected to be lower

NL = No listed value

Q = Qualifier

R = Data were rejected. The sample jar for this specific sample was broken in transit. Soil remaining in sealed baggie was analyzed.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

Table 7  
Norwood Landfill  
Residential Surface Soil Samples  
VOC and SVOC Analytical Results Summary

| Sample Number:<br>CLP Sample Number:<br>Units:<br>Sample Date:<br>Sample Depth:<br>Sample Type: | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-12  |   | NL-RS-13  |   | NL-RS-14  |   | NL-RS-15  |   | NL-RS-16  |   | NL-RS-17  |   | NL-RS-17D          |   |
|---|-----------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--------------------|---|
|   |                                   | C0AG5     |   | C0AG4     |   | C0AG3     |   | C0AG2     |   | C0AH6     |   | C0AH9     |   | C0AJ0              |   |
|   |                                   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg              |   |
|   |                                   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/24/2018          |   |
| 0-12  |                                   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12               |   |
| Field   |                                   | Field     |   | Field     |   | Field     |   | Field     |   | Field     |   | Field     |   | Dup of NL-RP-SS-17 |   |
| VOCs  |                                   | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result             | Q |
| Acetone   | 6,100,000                         | 13        | U | 16        |   | 4.7       | U | 12        | U | 12        | U | 11        | R | 11                 | R |
| 2-Hexanone  | 20,000                            | 13        | U | 13        | U | 11        | U | 12        | U | 12        | U | 11        | R | 11                 | R |
| 2-Butanone  | 2,700,000                         | 13        | U | 13        | U | 11        | U | 12        | U | 12        | U | 11        | R | 11                 | R |
| Chloroform  | 320                               | 6.3       | U | 6.3       | U | 5.7       | U | 6         | U | 5.8       | U | 5.4       | R | 5.4                | R |
| 1,1,1-Trichloroethane   | 810,000                           | 1.4       | J | 3.4       | J | 5.7       | U | 6         | U | 5.8       | U | 5.4       | R | 5.4                | R |
| Styrene   | 600,000                           | 6.3       | U | 6.3       | U | 46        | J | 6         | U | 5.8       | U | 5.4       | R | 5.4                | R |

|                        |           |     |   |      |   |      |   |     |   |     |   |     |   |     |   |
|------------------------|-----------|-----|---|------|---|------|---|-----|---|-----|---|-----|---|-----|---|
| Naphthalene            | 3,800     | 2.5 | J | 1.3  | J | 1.0  | J | 1.1 | J | 2.6 | J | 1.3 | J | 1.6 | J |
| 2-Methylnaphthalene    | 24,000    | 2.7 | J | 1.6  | J | 1.0  | J | 1.1 | J | 2.7 | J | 1.7 | J | 2.1 | J |
| Acenaphthylene         | NL        | 2.5 | J | 1.1  | J | 1.1  | J | 1.7 | J | 40  |   | 2.8 | J | 3.5 | J |
| Acenaphthene           | 360,000   | 3.4 | J | 0.78 | J | 0.66 | J | 1.6 | J | 4.4 |   | 1.5 | J | 1.2 | J |
| Fluorene               | 240,000   | 4.4 | U | 4.5  | U | 4.3  | U | 4.4 | U | 6.3 |   | 4.1 | U | 4.1 | U |
| Pentachlorophenol      | 1,000     | 9.0 | U | 9.1  | U | 8.7  | U | 1.7 | J | 8.6 | U | 8.4 | U | 8.3 | U |
| Phenanthrene           | NL        | 57  |   | 18   |   | 12   |   | 22  |   | 150 |   | 21  |   | 23  |   |
| Anthracene             | 1,800,000 | 9.9 |   | 2.9  | J | 2.1  | J | 5.2 |   | 51  |   | 4.2 |   | 4.4 |   |
| Fluoranthene           | 240,000   | 120 |   | 58   |   | 38   |   | 66  |   | 450 |   | 55  |   | 64  |   |
| Pyrene                 | 180,000   | 91  |   | 47   |   | 31   |   | 53  |   | 350 |   | 41  |   | 50  |   |
| Benzo(a)anthracene     | 1,100     | 49  |   | 28   |   | 18   |   | 38  |   | 220 |   | 25  |   | 32  |   |
| Chrysene               | 110,000   | 48  |   | 32   |   | 20   |   | 38  |   | 260 |   | 28  |   | 32  |   |
| Benzo(b)fluoranthene   | 1,100     | 57  |   | 46   |   | 30   |   | 53  |   | 420 |   | 41  |   | 54  |   |
| Benzo(k)fluoranthene   | 11,000    | 17  |   | 15   |   | 10   |   | 20  |   | 130 |   | 15  |   | 19  |   |
| Benzo(a)pyrene         | 110       | 44  |   | 35   |   | 24   |   | 42  |   | 220 |   | 28  |   | 37  |   |
| Indeno(1,2,3-cd)pyrene | 1,100     | 22  |   | 19   |   | 13   |   | 20  |   | 170 |   | 10  |   | 14  |   |
| Dibenzo(a,h)anthracene | 110       | 4.4 | U | 4.5  | U | 4.3  | U | 4.4 | U | 4.2 | U | 4.1 | U | 4.1 | U |
| Benzo(g,h,i)perylene   | NL        | 20  | J | 17   | J | 12   | J | 18  | J | 68  | J | 8.3 | J | 11  | J |

|                            |           |     |   |     |   |     |   |     |   |     |   |     |   |     |   |
|----------------------------|-----------|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|
| naphthalene                | 3,800     | 230 | U | 230 | U | 220 | U | 230 | U | 220 | U | 210 | U | 210 | U |
| 2-Methylnaphthalene        | 24,000    | 230 | U | 230 | U | 220 | U | 230 | U | 220 | U | 210 | U | 210 | U |
| Acenaphthene               | 360,000   | 230 | U | 230 | U | 220 | U | 230 | U | 220 | U | 210 | U | 210 | U |
| Dibenzofuran               | 7,300     | 230 | U | 230 | U | 220 | U | 230 | U | 220 | U | 210 | U | 210 | U |
| Fluorene                   | 240,000   | 230 | U | 230 | U | 220 | U | 230 | U | 220 | U | 210 | U | 210 | U |
| Phenanthrene               | NL        | 120 | J | 30  | J | 220 | U | 34  | J | 170 | J | 36  | J | 40  | J |
| Anthracene                 | 1,800,000 | 230 | U | 230 | U | 220 | U | 32  | J | 55  | J | 210 | U | 210 | U |
| Carbazole                  | NL        | 440 | U | 450 | U | 430 | U | 440 | U | 420 | U | 410 | U | 410 | U |
| Di-n-butylphthalate        | 630,000   | 24  | J | 230 | U | 220 | U | 230 | U | 220 | U | 210 | U | 210 | U |
| Fluoranthene               | 240,000   | 210 | J | 96  | J | 56  | J | 77  | J | 500 |   | 85  | J | 110 | J |
| Pyrene                     | 180,000   | 170 | J | 81  | J | 45  | J | 80  | J | 440 |   | 68  | J | 83  | J |
| Butylbenzylphthalate       | 290,000   | 230 | U | 230 | U | 220 | U | 38  | J | 220 | U | 210 | U | 210 | U |
| Benzo(a)anthracene         | 1,100     | 91  | J | 41  | J | 22  | J | 50  | J | 220 |   | 40  | J | 48  | J |
| Chrysene                   | 110,000   | 100 | J | 57  | J | 31  | J | 61  | J | 320 |   | 42  | J | 64  | J |
| bis(2-Ethylhexyl)phthalate | 39,000    | 120 | J | 55  | J | 39  | J | 100 | J | 210 | J | 30  | J | 34  | J |
| Benzo(b)fluoranthene       | 1,100     | 150 | J | 89  | J | 37  | J | 74  | J | 500 |   | 73  | J | 87  | J |
| Benzo(k)fluoranthene       | 11,000    | 49  | J | 25  | J | 220 | U | 31  | J | 180 | J | 210 | U | 26  | J |
| Benzo(a)pyrene             | 110       | 93  | J | 52  | J | 28  | J | 50  | J | 260 |   | 48  | J | 56  | J |
| Indeno(1,2,3-cd)pyrene     | 1,100     | 47  | J | 29  | J | 220 | U | 29  | J | 190 | J | 29  | J | 40  | J |
| Benzo(g,h,i)perylene       | NL        | 53  | J | 30  | J | 220 | U | 31  | J | 200 | J | 34  | J | 42  | J |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

J+ = Reported value is estimated; actual value is expected to be higher

J- = Reported value is estimated; actual value is expected to be lower

NL = No listed value

Q = Qualifier

R = Data were rejected. The sample jar for this specific sample was broken in transit. Soil remaining in sealed baggie was analyzed.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

Table 7  
Norwood Landfill  
Residential Surface Soil Samples  
VOC and SVOC Analytical Results Summary

| Sample Number:        | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-18  |        | NL-RS-19  |        | NL-RS-20  |        | NL-RS-21  |        | NL-2017-SS-17 |        | NL-2017-SS-18 |   |
|-----------------------|-----------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|---------------|--------|---------------|---|
| CLP Sample Number:    |                                   | C0AJ1     |        | C0AJ2     |        | C0AJ3     |        | C0AJ4     |        | C0AC8         |        | C0AC9         |   |
| Units:                |                                   | µg/kg     |        | µg/kg     |        | µg/kg     |        | µg/kg     |        | µg/kg         |        | µg/kg         |   |
| Sample Date:          |                                   | 5/24/2018 |        | 5/24/2018 |        | 5/24/2018 |        | 5/24/2018 |        | 9/28/2017     |        | 9/28/2017     |   |
| Sample Depth:         |                                   | 0-12      |        | 0-12      |        | 0-12      |        | 0-12      |        | 0-6           |        | 0-6           |   |
| Sample Type:          |                                   | Field     |        | Field     |        | Field     |        | Field     |        | Background    |        | Background    |   |
| VOCs                  | Result                            | Q         | Result | Q         | Result | Q         | Result | Q         | Result | Q             | Result | Q             |   |
| Acetone               | 6,100,000                         | 15        | U      | 18        | U      | 14        | U      | 16        |        | 11            | U      | 12            | U |
| 2-Hexanone            | 20,000                            | 20        | U      | 18        | U      | 22        | U      | 16        | U      | 11            | U      | 12            | U |
| 2-Butanone            | 2,700,000                         | 15        | U      | 18        | U      | 14        | U      | 16        | U      | 11            | U      | 12            | U |
| Chloroform            | 320                               | 7.4       | U      | 8.8       | U      | 7.2       | U      | 7.9       | U      | 5.7           | U      | 5.9           | U |
| 1,1,1-Trichloroethane | 810,000                           | 7.4       | U      | 8.8       | U      | 7.2       | U      | 7.9       | U      | 5.7           | U      | 5.9           | U |
| Styrene               | 600,000                           | 7.4       | U      | 8.8       | U      | 7.2       | U      | 7.9       | U      | 5.7           | U      | 5.9           | U |

|                        |           |     |   |  |  |  |  |  |  |     |   |      |   |
|------------------------|-----------|-----|---|--|--|--|--|--|--|-----|---|------|---|
| Naphthalene            | 3,800     | 2.2 | J |  |  |  |  |  |  | 9.1 |   | 5.9  |   |
| 2-Methylnaphthalene    | 24,000    | 2.2 | J |  |  |  |  |  |  | 9.3 |   | 6.1  |   |
| Acenaphthylene         | NL        | 3.4 | J |  |  |  |  |  |  | 7.6 | J | 6.4  |   |
| Acenaphthene           | 360,000   | 3.9 | J |  |  |  |  |  |  | 7.1 |   | 5.1  |   |
| Fluorene               | 240,000   | 6.3 |   |  |  |  |  |  |  | 6.7 |   | 4.0  |   |
| Pentachlorophenol      | 1,000     | 9.9 | U |  |  |  |  |  |  | 7.4 | U | 8.4  | U |
| Phenanthrene           | NL        | 76  |   |  |  |  |  |  |  | 140 |   | 150  |   |
| Anthracene             | 1,800,000 | 21  |   |  |  |  |  |  |  | 20  |   | 20   |   |
| Fluoranthene           | 240,000   | 170 |   |  |  |  |  |  |  | 230 |   | 610  | J |
| Pyrene                 | 180,000   | 130 |   |  |  |  |  |  |  | 250 |   | 650  | J |
| Benzo(a)anthracene     | 1,100     | 75  |   |  |  |  |  |  |  | 140 |   | 370  | J |
| Chrysene               | 110,000   | 62  |   |  |  |  |  |  |  | 130 |   | 550  | J |
| Benzo(b)fluoranthene   | 1,100     | 100 |   |  |  |  |  |  |  | 200 |   | 1100 | J |
| Benzo(k)fluoranthene   | 11,000    | 33  |   |  |  |  |  |  |  | 52  |   | 320  |   |
| Benzo(a)pyrene         | 110       | 69  |   |  |  |  |  |  |  | 110 |   | 550  | J |
| Indeno(1,2,3-cd)pyrene | 1,100     | 23  |   |  |  |  |  |  |  | 82  |   | 490  | J |
| Dibenzo(a,h)anthracene | 110       | 4.9 | U |  |  |  |  |  |  | 24  |   | 140  |   |
| Benzo(g,h,i)perylene   | NL        | 20  | J |  |  |  |  |  |  | 79  |   | 500  | J |

|                            |           |     |   |       |   |      |   |      |   |     |   |     |   |
|----------------------------|-----------|-----|---|-------|---|------|---|------|---|-----|---|-----|---|
| naphthalene                | 3,800     | 250 | U | 1300  | U | 1200 | U | 240  | J | 190 | U | 210 | U |
| 2-Methylnaphthalene        | 24,000    | 250 | U | 1300  | U | 1200 | U | 150  | J | 190 | U | 210 | U |
| Acenaphthene               | 360,000   | 250 | U | 240   | J | 1200 | U | 240  | J | 190 | U | 210 | U |
| Dibenzofuran               | 7,300     | 250 | U | 1300  | U | 1200 | U | 250  | J | 190 | U | 210 | U |
| Flourene                   | 240,000   | 250 | U | 270   | J | 1200 | U | 240  |   | 190 | U | 210 | U |
| Phenanthrene               | NL        | 120 | J | 6500  |   | 2500 |   | 4700 |   | 130 | J | 130 | J |
| Anthracene                 | 1,800,000 | 28  | J | 1300  |   | 460  | J | 430  | J | 190 | U | 210 | U |
| Carbazole                  | NL        | 490 | U | 550   | J | 380  | J | 380  | J | 190 | U | 210 | U |
| Di-n-butylphthalate        | 630,000   | 42  | J | 130   | J | 1200 | U | 1300 | U | 190 | U | 210 | U |
| Fluoranthene               | 240,000   | 200 | J | 18000 |   | 6300 |   | 6900 |   | 230 | J | 580 |   |
| Pyrene                     | 180,000   | 160 | J | 15000 |   | 4700 |   | 5400 |   | 190 | J | 610 |   |
| Butylbenzylphthalate       | 290,000   | 250 | U | 230   | J | 150  | J | 1300 | U | 100 | J | 290 |   |
| Benzo(a)anthracene         | 1,100     | 98  | J | 9100  |   | 2500 |   | 2200 |   | 130 | J | 550 |   |
| Chrysene                   | 110,000   | 110 | J | 9900  |   | 3200 |   | 3000 |   | 340 |   | 750 |   |
| bis(2-Ethylhexyl)phthalate | 39,000    | 350 | J | 870   | J | 520  | J | 190  | J | 150 | J | 910 |   |
| Benzo(b)fluoranthene       | 1,100     | 140 | J | 15000 |   | 4400 |   | 3800 |   | 52  | J | 240 |   |
| Benzo(k)fluoranthene       | 11,000    | 40  | J | 4600  |   | 1400 |   | 1300 |   | 98  | J | 480 |   |
| Benzo(a)pyrene             | 110       | 95  | J | 9700  |   | 2700 |   | 2200 |   | 58  |   | 420 |   |
| Indeno(1,2,3-cd)pyrene     | 1,100     | 61  | J | 6900  |   | 2000 |   | 1600 |   | 190 |   | 120 | J |
| Benzo(g,h,i)perylene       | NL        | 64  | J | 7600  |   | 2200 |   | 1700 |   | 53  |   | 480 |   |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

µg/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

J+ = Reported value is estimated; actual value is expected to be higher

J- = Reported value is estimated, actual value is expected to be lower

NL = No listed value

Q = Qualifier

R = Data were rejected. The sample jar for this specific sample was broken in transit. Soil remaining in sealed baggie was analyzed.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

Table 8  
Residential Surface Soil Samples  
PCB and Pesticide Analytical Results

| Sample Number:      | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-01  |   | NL-RS-01D          |   | NL-RS-02  |   | NL-RS-03  |   | NL-RS-04  |   | NL-RS-05  |   |
|---------------------|-----------------------------------|-----------|---|--------------------|---|-----------|---|-----------|---|-----------|---|-----------|---|
| CLP Sample Number:  |                                   | C0AG1     |   | C0AH1              |   | C0AH5     |   | C0AH4     |   | C0AH3     |   | C0AH2     |   |
| Units:              |                                   | µg/kg     |   | µg/kg              |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   |
| Sample Date:        |                                   | 5/23/2018 |   | 5/23/2018          |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   |
| Sample Depth:       |                                   | 0-12      |   | 0-12               |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   |
| Sample Type:        |                                   | Field     |   | Dup of NL-RP-SS-01 |   | Field     |   | Field     |   | Field     |   | Field     |   |
| PCB                 |                                   | Result    | Q | Result             | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q |
| Aroclor 1254        | 120                               | 45        | U | 44                 | U | 43        | U | 50        | U | 47        | U | 45        | U |
| Aroclor-1260        | 240                               | 76        | J | 81                 | J | 42        | J | 27        | J | 21        | J | 31        | J |
| Pesticide           |                                   |           |   |                    |   |           |   |           |   |           |   |           |   |
| alpha-BHC           | 86                                | 2.3       | U | 2.3                | U | 2.2       | U | 2.6       | U | 2.4       | U | 2.3       | U |
| beta-BHC            | 300                               | 2.3       | U | 2.3                | U | 2.2       | U | 2.6       | U | 2.4       | U | 2.3       | U |
| delta-BHC           | NL                                | 2.3       | U | 2.3                | U | 2.2       | U | 2.6       | U | 2.4       | U | 2.3       | U |
| gamma-BHC (Lindane) | 570                               | 2.3       | U | 2.3                | U | 2.2       | U | 2.6       | U | 2.4       | U | 0.54      | J |
| Heptachlor          | 130                               | 3.1       | J | 1.0                | J | 2.2       | U | 2.6       | U | 0.98      | J | 2.3       | U |
| Aldrin              | 39                                | 0.58      | J | 2.3                | U | 2.3       | U | 2.6       | U | 1.2       | J | 0.28      | J |
| Heptachlor epoxide  | 70                                | 7.2       | J | 8.0                | J | 1.4       | J | 0.96      | J | 2.4       | U | 2.3       | U |
| Endosulfan I        | 47,000 (E)                        | 0.38      | R | 2.3                | U | 0.49      | R | 0.71      | R | 2.4       | U | 2.3       | U |
| Dieldrin            | 34                                | 2.6       | J | 2.8                | J | 170       |   | 4.6       | J | 4.7       | U | 0.60      | R |
| 4,4'-DDE            | 2,000                             | 7.9       | J | 9.9                | J | 7.2       |   | 3.0       | J | 0.44      | J | 0.66      | J |
| Endrin              | 1,900                             | 0.82      | R | 4.4                | U | 0.60      | R | 1.1       | J | 1.4       | J | 0.74      | J |
| Endosulfan II       | 47,000 (E)                        | 4.5       | U | 4.4                | U | 4.3       | U | 5.0       | U | 4.7       | U | 4.5       | U |
| 4,4'-DDD            | 190                               | 5.0       | R | 2.5                | R | 0.39      | R | 1.1       | R | 4.7       | U | 4.5       | U |
| Endosulfan sulfate  | 47,000 (E)                        | 1.3       | J | 4.4                | U | 4.3       | U | 0.44      | J | 4.7       | U | 0.92      | R |
| 4,4'-DDT            | 1,900                             | 14        | J | 23                 | J | 9.5       |   | 4.8       | J | 4.7       | U | 4.5       | U |
| Methoxychlor        | 32,000                            | 23        | U | 2.6                | J | 4.5       | J | 3.3       | J | 2.4       | J | 23        |   |
| Endrin ketone (*)   | 1,900                             | 0.75      | R | 4.4                | U | 4.3       | U | 0.73      | R | 4.7       | U | 4.5       | U |
| Endrin aldehyde (*) | 1,900                             | 0.29      | R | 0.39               | R | 1.9       | J | 1.0       | J | 1.5       | J | 0.35      | R |
| cis-Chlordane (*)   | 1,700                             | 30        | J | 25                 | J | 12        |   | 11        |   | 0.92      | R | 0.89      | J |
| trans-Chlordane (*) | 1,700                             | 24        | J | 14                 | J | 4.3       | J | 6.7       | J | 1.1       | J | 0.61      | J |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

(\*) = Endrin and Chlordane values, respectively.

(E) = Endosulfan value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

ug/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 8  
Residential Surface Soil Samples  
PCB and Pesticide Analytical Results

| Sample Number:      | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-06  |   | NL-RS-07  |   | NL-RS-08  |   | NL-RS-09  |   | NL-RS-10  |   | NL-RS-11  |   |
|---------------------|-----------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
| CLP Sample Number:  |                                   | C0AH1     |   | C0AH0     |   | C0AG9     |   | C0AG8     |   | C0AG7     |   | C0AG6     |   |
| Units:              |                                   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   |
| Sample Date:        |                                   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   |
| Sample Depth:       |                                   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   |
| Sample Type:        |                                   | Field     |   | Field     |   | Field     |   | Field     |   | Field     |   | Field     |   |
| PCB                 |                                   | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q |
| Arochlor-1254       | 120                               | 52        | U | 46        | U | 45        | U | 47        | U | 16        | J | 43        | U |
| Arochlor-1260       | 240                               | 30        | J | 24        | J | 31        | J | 17        | J | 44        | U | 87        |   |
| Pesticide           |                                   |           |   |           |   |           |   |           |   |           |   |           |   |
| alpha-BHC           | 86                                | 2.7       | U | 2.4       | U | 2.3       | U | 2.4       | U | 2.3       | U | 2.2       | U |
| beta-BHC            | 300                               | 2.7       | U | 2.4       | U | 2.3       | U | 2.4       | U | 2.3       | U | 2.2       | U |
| delta-BHC           | NL                                | 2.7       | U | 2.4       | U | 2.3       | U | 2.4       | U | 2.3       | U | 2.2       | U |
| gamma-BHC (Lindane) | 570                               | 2.7       | U | 1.0       | J | 2.3       | U | 2.4       | U | 2.3       | U | 2.2       | U |
| Heptachlor          | 130                               | 2.7       | U | 2.4       | U | 2.3       | U | 2.4       | U | 2.3       | U | 2.2       | U |
| Aldrin              | 39                                | 2.7       | U | 2.4       | U | 2.3       | U | 2.4       | U | 2.3       | U | 2.2       | U |
| Heptachlor epoxide  | 70                                | 0.47      | J | 0.56      | R | 2.3       | U | 2.4       | U | 2.2       | J | 0.44      | J |
| Endosulfan I        | 47,000 (E)                        | 0.46      | R | 2.4       | U | 0.36      | R | 0.38      | R | 0.97      | R | 2.2       | U |
| Dieldrin            | 34                                | 3.0       | J | 0.48      | R | 0.80      | J | 4.7       | U | 1.6       | J | 19        |   |
| 4,4'-DDE            | 2,000                             | 3.1       | J | 1.1       | J | 6.4       |   | 12        |   | 1.8       | J | 290       |   |
| Endrin              | 1,900                             | 0.46      | R | 0.54      | J | 0.58      | R | 0.83      | R | 0.44      | J | 9.1       |   |
| Endosulfan II       | 47,000 (E)                        | 5.2       | U | 4.6       | U | 4.5       | U | 4.7       | U | 4.4       | U | 4.3       | U |
| 4,4'-DDD            | 190                               | 5.2       | U | 4.6       | U | 0.40      | R | 0.38      | R | 4.4       | U | 1.0       | J |
| Endosulfan sulfate  | 47,000 (E)                        | 1.4       | R | 220       |   | 0.42      | R | 0.51      | R | 4.4       | U | 0.61      | J |
| 4,4'-DDT            | 1,900                             | 8.0       | J | 4.6       | U | 6.3       |   | 7.3       | J | 4.4       | U | 130       |   |
| Methoxychlor        | 32,000                            | 2.7       | J | 9.2       | J | 0.83      | R | 2.1       | J | 5.7       | J | 10        | J |
| Endrin ketone (*)   | 1,900                             | 5.2       | U | 0.75      | J | 0.75      | R | 4.7       | U | 4.4       | U | 4.3       | U |
| Endrin aldehyde (*) | 1,900                             | 2.0       | J | 4.6       | U | 4.5       | U | 1.1       | R | 0.39      | R | 0.53      | R |
| cis-Chlordane (*)   | 1,700                             | 1.5       | J | 2.4       |   | 0.45      | J | 2.4       | U | 2.3       |   | 1.9       | J |
| trans-Chlordane (*) | 1,700                             | 0.63      | J | 0.91      | J | 2.3       | U | 0.36      | R | 3.9       | R | 1.7       | J |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

(\*) = Endrin and Chlordane values, respectively.

(E) = Endosulfan value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

ug/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier



Table 8  
Residential Surface Soil Samples  
PCB and Pesticide Analytical Results

| Sample Number:      | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-12  |   | NL-RS-13  |   | NL-RS-14  |   | NL-RS-15  |   | NL-RS-16  |   |
|---------------------|-----------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
| CLP Sample Number:  |                                   | C0AG5     |   | C0AG4     |   | C0AG3     |   | C0AG2     |   | C0AH6     |   |
| Units:              |                                   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   | µg/kg     |   |
| Sample Date:        |                                   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   | 5/23/2018 |   |
| Sample Depth:       |                                   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   | 0-12      |   |
| Sample Type:        |                                   | Field     |   | Field     |   | Field     |   | Field     |   | Field     |   |
| PCB                 |                                   | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q |
| Aroclor-1254        | 120                               | 44        | U | 47        | U | 42        | U | 44        | U | 44        | U |
| Aroclor-1260        | 240                               | 32        | J | 47        | U | 42        | U | 44        | U | 19        | J |
| Pesticide           |                                   |           |   |           |   |           |   |           |   |           |   |
| alpha-BHC           | 86                                | 11        | U | 2.4       | U | 2.2       | U | 2.3       | U | 2.3       | U |
| beta-BHC            | 300                               | 11        | U | 2.4       | U | 2.2       | U | 2.8       | J | 2.3       | U |
| delta-BHC           | NL                                | 11        | U | 2.4       | U | 2.2       | U | 2.3       | U | 2.3       | U |
| gamma-BHC (Lindane) | 570                               | 11        | U | 2.4       | U | 2.2       | U | 2.3       | U | 2.3       | U |
| Heptachlor          | 130                               | 11        | U | 2.4       | U | 2.2       | U | 2.9       | J | 2.3       | U |
| Aldrin              | 39                                | 53        |   | 2.4       | U | 2.2       | U | 2.3       | U | 2.3       | U |
| Heptachlor epoxide  | 70                                | 11        | U | 0.25      | J | 2.2       | U | 29        | J | 0.30      | J |
| Endosulfan I        | 47,000 (E)                        | 2.4       | J | 0.53      | J | 2.2       | U | 9.7       | R | 2.2       | J |
| Dieldrin            | 34                                | 1300      |   | 1.2       | J | 2.0       | J | 3.5       | R | 1.2       | R |
| 4,4'-DDE            | 2,000                             | 29        |   | 0.84      | R | 0.68      | J | 15        | J | 3.6       | J |
| Endrin              | 1,900                             | 1.7       | J | 4.7       | U | 0.52      | R | 1.1       | R | 0.77      | J |
| Endosulfan II       | 47,000 (E)                        | 22        | U | 4.7       | U | 4.2       | U | 4.4       | U | 4.4       | U |
| 4,4'-DDD            | 190                               | 22        | U | 4.7       | U | 4.2       | U | 1.7       | R | 0.32      | J |
| Endosulfan sulfate  | 47,000 (E)                        | 6.7       | J | 8.9       | J | 0.49      | R | 0.73      | J | 4.4       | U |
| 4,4'-DDT            | 1,900                             | 25        |   | 4.7       | U | 4.2       | U | 9.0       | J | 5.3       |   |
| Methoxychlor        | 32,000                            | 7.4       | J | 5.4       | J | 1.3       | J | 150       | J | 15        | J |
| Endrin ketone (*)   | 1,900                             | 4.9       | J | 0.76      | J | 4.2       | U | 6.3       | J | 4.4       | U |
| Endrin aldehyde (*) | 1,900                             | 22        | U | 0.38      | J | 1.2       | R | 1.2       | R | 0.41      | J |
| cis-Chlordane (*)   | 1,700                             | 11        | U | 0.99      | J | 2.2       | U | 120       |   | 2.3       | U |
| trans-Chlordane (*) | 1,700                             | 1.6       | J | 0.93      | J | 0.37      | R | 66        |   | 2.6       |   |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

(\*) = Endrin and Chlordane values, respectively.

(E) = Endosulfan value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

ug/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 8  
Residential Surface Soil Samples  
PCB and Pesticide Analytical Results

| Sample Number:      | EPA RSL<br>Residential<br>(µg/kg) | NL-RS-17  | NL-RS-17D          | NL-RS-18  | NL-RS-19  | NL-RS-20  | NL-RS-21  | NL-2017-SS-17 | NL-2017-SS-18 |        |   |        |   |        |   |        |   |
|---------------------|-----------------------------------|-----------|--------------------|-----------|-----------|-----------|-----------|---------------|---------------|--------|---|--------|---|--------|---|--------|---|
| CLP Sample Number:  |                                   | C0AH9     | C0AJ0              | C0AJ1     | C0AJ2     | C0AJ3     | C0AJ4     | C0AC8         | C0AC9         |        |   |        |   |        |   |        |   |
| Units:              |                                   | µg/kg     | µg/kg              | µg/kg     | µg/kg     | µg/kg     | µg/kg     | µg/kg         | µg/kg         |        |   |        |   |        |   |        |   |
| Sample Date:        |                                   | 5/24/2018 | 5/24/2018          | 5/24/2018 | 5/24/2018 | 5/24/2018 | 5/24/2018 | 9/28/2017     | 9/28/2017     |        |   |        |   |        |   |        |   |
| Sample Depth:       |                                   | 0-12      | 0-12               | 0-12      | 0-12      | 0-12      | 0-12      | 0-6           | 0-6           |        |   |        |   |        |   |        |   |
| Sample Type:        |                                   | Field     | Dup of NL-RP-SS-17 | Field     | Field     | Field     | Field     | Background    | Background    |        |   |        |   |        |   |        |   |
| PCB                 |                                   | Result    | Q                  | Result    | Q         | Result    | Q         | Result        | Q             | Result | Q | Result | Q | Result | Q | Result | Q |
| Aroclor-1254        | 120                               | 41        | U                  | 41        | U         | 49        | U         | 51            | U             | 48     | U | 50     | U | 36     | U | 77     |   |
| Aroclor-1260        | 240                               | 35        | J                  | 33        | J         | 100       | J         | 310           |               | 39     | J | 50     | U | 17     | J | 57     |   |
| Pesticide           |                                   |           |                    |           |           |           |           |               |               |        |   |        |   |        |   |        |   |
| alpha-BHC           | 86                                | 2.1       | U                  | 2.1       | U         | 2.5       | U         | 2.6           | U             | 2.5    | U | 0.48   | J | 1.9    | U | 2.1    | U |
| beta-BHC            | 300                               | 2.1       | U                  | 2.1       | U         | 2.5       | U         | 2.6           | U             | 2.5    | U | 2.6    | U | 1.9    | U | 2.1    | U |
| delta-BHC           | NL                                | 2.1       | U                  | 2.1       | U         | 2.5       | U         | 2.6           | U             | 2.5    | U | 0.32   | R | 1.9    | U | 2.1    | U |
| gamma-BHC (Lindane) | 570                               | 2.1       | U                  | 2.1       | U         | 2.5       | U         | 3.7           | J             | 2.2    | J | 65     |   | 1.9    | U | 2.1    | U |
| Heptachlor          | 130                               | 0.57      | J                  | 0.37      | J         | 2.5       | U         | 0.79          | J             | 0.83   | R | 6.3    | J | 1.9    | U | 2.1    | U |
| Aldrin              | 39                                | 2.1       | U                  | 0.28      | R         | 0.58      | J         | 2.3           | J             | 2.5    | U | 2.6    | U | 1.9    | U | 2.1    | U |
| Heptachlor epoxide  | 70                                | 4.9       |                    | 5.1       |           | 0.36      | R         | 3.1           | J             | 3.7    |   | 4.1    | J | 1.9    | U | 2.1    | U |
| Endosulfan I        | 47,000 (E)                        | 0.41      | R                  | 0.43      | R         | 2.5       | U         | 4.7           | R             | 0.33   | R | 0.33   | R | 1.9    | U | 2.1    | U |
| Dieldrin            | 34                                | 2.4       | J                  | 2.6       | J         | 5.5       |           | 17            | R             | 1.2    | R | 9.4    | R | 3.6    | U | 4      | U |
| 4,4'-DDE            | 2,000                             | 30        |                    | 31        |           | 2.1       | J         | 19            | J             | 1.8    | J | 1.1    | R | 3.3    | J | 4      | U |
| Endrin              | 1,900                             | 3.6       | J                  | 4.0       | J         | 0.97      | J         | 1.4           | R             | 1.1    | J | 23     | J | 3.6    | U | 4      | U |
| Endosulfan II       | 47,000 (E)                        | 4.1       | U                  | 4.1       | U         | 4.9       | U         | 8.0           |               | 2.7    | J | 15     | R | 3.6    | U | 4      | U |
| 4,4'-DDD            | 190                               | 0.83      | J                  | 0.71      | R         | 2.5       | J         | 9.2           | R             | 1.8    | R | 4.9    | R | 3.6    | U | 4      | U |
| Endosulfan sulfate  | 47,000 (E)                        | 0.87      | J                  | 4.1       | U         | 4.9       | U         | 5.1           | U             | 4.8    | U | 2.6    | R | 3.6    | U | 4      | U |
| 4,4'-DDT            | 1,900                             | 24        |                    | 27        |           | 6.1       |           | 36            | J             | 6.4    |   | 6.0    | R | 4.2    | J | 4      | U |
| Methoxychlor        | 32,000                            | 2.8       | J                  | 3.1       | J         | 1.6       | J         | 200           | J             | 100    |   | 650    | J | 19     | U | 21     | U |
| Endrin ketone (*)   | 1,900                             | 0.59      | J                  | 4.1       | U         | 4.9       | U         | 7.0           | R             | 9.7    |   | 130    | J | 3.6    | U | 4      | U |
| Endrin aldehyde (*) | 1,900                             | 0.39      | R                  | 0.45      | R         | 0.34      | J         | 3.3           | J             | 2.0    | J | 21     | R | 3.6    | U | 4      | U |
| cis-Chlordane (*)   | 1,700                             | 16        |                    | 16        |           | 4.7       |           | 39            | J             | 16     |   | 9.6    | R | 1.9    | U | 2.1    | U |
| trans-Chlordane (*) | 1,700                             | 5.1       | J                  | 5.5       | J         | 4.1       | J         | 46            | J             | 8.9    | J | 9.4    | R | 1.9    | U | 2.1    | U |

Notes:

Data compared to EPA RSLs for residential and industrial soil TR= 1E-06 HQ 0.1 (Ref. 10)

(\*) = Endrin and Chlordane values, respectively.

(E) = Endosulfan value

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

ug/kg = micrograms per kilogram

J = Reported value is estimated; actual value may be higher or lower

approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 9  
Norwood Landfill  
Residential Surface Soil Samples  
Inorganic Analytical Results

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | NL-RS-01  |              | NL-RS-01D          |              | NL-RS-02  |              | NL-RS-03  |              | NL-RS-04  |              | NL-RS-05  |              |    |
|-----------------------|-----------------------------------|-----------|--------------|--------------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----|
| CLP Sample Number:    |                                   | MC0AG1    |              | MC0AH1             |              | MC0AH5    |              | MC0AH4    |              | MC0AH3    |              | MC0AH2    |              |    |
| Units:                |                                   | mg/kg     |              | mg/kg              |              | mg/kg     |              | mg/kg     |              | mg/kg     |              | mg/kg     |              |    |
| Sample Date:          |                                   | 5/23/2018 |              | 5/23/2018          |              | 5/23/2018 |              | 5/23/2018 |              | 5/23/2018 |              | 5/23/2018 |              |    |
| Sample Depth:         |                                   | 0-12      |              | 0-12               |              | 0-12      |              | 0-12      |              | 0-12      |              | 0-12      |              |    |
| Sample Type:          |                                   | Field     |              | Dup of NL-RP-SS-01 |              | Field     |              | Field     |              | Field     |              | Field     |              |    |
| Metals                | Result                            | Q         | Result       | Q                  | Result       | Q         | Result       | Q         | Result       | Q         | Result       | Q         |              |    |
| Aluminum              | 7,700                             |           | <b>10100</b> |                    | <b>12300</b> |           | <b>13600</b> |           | <b>10900</b> |           | <b>12200</b> |           | <b>13000</b> |    |
| Antimony              | 3.1                               |           | 1.2          | UJ                 | 1.3          | UJ        | 1.2          | UJ        | 1.3          | UJ        | 1.1          | UJ        | 1.2          | UJ |
| Arsenic               | 0.68                              |           | <b>4.4</b>   |                    | <b>4.2</b>   |           | <b>5.4</b>   |           | <b>8.2</b>   |           | <b>4.2</b>   |           | <b>4.5</b>   |    |
| Barium                | 1,500                             |           | 104          |                    | 96.2         |           | 53.5         |           | 64.5         |           | 37.1         |           | 49.6         |    |
| Beryllium             | 16                                |           | 0.61         |                    | 0.65         |           | 0.59         | J         | 0.42         | J         | 0.44         | J         | 0.57         | J  |
| Cadmium               | 7.1                               |           | 0.90         |                    | 0.96         |           | 0.47         | J         | 0.61         | J         | 0.10         | J         | 0.27         | J  |
| Calcium               | NL                                |           | 6280         | J                  | 4930         | J         | 1960         | J         | 2890         | J         | 661          | J         | 1400         | J  |
| Chromium <sup>1</sup> | 12,000                            |           | 21.5         | J                  | 22.3         | J         | 19.0         | J         | 16.3         | J         | 15.8         | J         | 23.3         | J  |
| Cobalt                | 2.3                               |           | <b>7.2</b>   |                    | <b>7.2</b>   |           | <b>9.4</b>   |           | <b>4.7</b>   |           | <b>4.0</b>   |           | <b>6.3</b>   |    |
| Copper                | 310                               |           | 72.5         | J                  | 70.6         | J         | 18.3         | J         | 20.6         | J         | 10.2         | J         | 19.2         | J  |
| Iron                  | 5,500                             |           | <b>16400</b> |                    | <b>18100</b> |           | <b>18600</b> |           | <b>14400</b> |           | <b>14700</b> |           | <b>18600</b> |    |
| Lead <sup>2</sup>     | 400                               |           | 248          | J                  | 172          | J         | 51.5         | J         | 109          | J         | 32.8         | J         | 46.3         | J  |
| Magnesium             | NL                                |           | 3160         | J                  | 3690         | J         | 2730         | J         | 1610         | J         | 1830         | J         | 2330         | J  |
| Manganese             | 180                               |           | <b>465</b>   |                    | <b>452</b>   |           | <b>464</b>   |           | <b>362</b>   |           | 105          |           | <b>235</b>   |    |
| Mercury               | 1.1                               |           | 0.13         |                    | 0.19         |           | 0.045        | J         | 0.12         | J         | 0.047        | J         | 0.061        | J  |
| Nickel                | 150                               |           | 15.0         |                    | 15.2         |           | 12.0         |           | 10.5         |           | 9.5          |           | 14.8         |    |
| Potassium             | NL                                |           | 2500         |                    | 2920         |           | 2170         |           | 946          |           | 1280         |           | 1240         |    |
| Selenium              | 390                               |           | 0.45         | J                  | 0.51         | J         | 3.1          | U         | 1.0          | J         | 0.45         | J         | 3.0          | U  |
| Silver                | 390                               |           | 0.36         | J                  | 0.38         | J         | 0.61         | U         | 0.10         | J         | 0.57         | U         | 0.61         | U  |
| Sodium                | NL                                |           | 40.5         | J                  | 59.4         | J         | 85.5         | J         | 33.3         | J         | 77.4         | J         | 37.7         | J  |
| Thallium              | 0.078                             |           | 0.60         | U                  | 0.64         | U         | 0.61         | U         | 0.67         | U         | 0.57         | U         | 0.61         | U  |
| Vanadium              | 39                                |           | 26.2         |                    | 26.7         |           | 26.4         |           | 29.4         |           | 26.9         |           | 30.4         |    |
| Zinc                  | 2,300                             |           | 521          |                    | <b>529</b>   |           | 78.2         |           | <b>264</b>   |           | 53.4         |           | 96.9         |    |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 9  
Norwood Landfill  
Residential Surface Soil Samples  
Inorganic Analytical Results

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | NL-RS-06     | NL-RS-07  | NL-RS-08     | NL-RS-09  | NL-RS-10     | NL-RS-11  |              |    |              |    |              |    |
|-----------------------|-----------------------------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----|--------------|----|--------------|----|
| CLP Sample Number:    |                                   | MC0AH1       | MC0AH0    | MC0AG9       | MC0AG8    | MC0AG7       | MC0AG6    |              |    |              |    |              |    |
| Units:                |                                   | mg/kg        | mg/kg     | mg/kg        | mg/kg     | mg/kg        | mg/kg     |              |    |              |    |              |    |
| Sample Date:          |                                   | 5/23/2018    | 5/23/2018 | 5/23/2018    | 5/23/2018 | 5/23/2018    | 5/23/2018 |              |    |              |    |              |    |
| Sample Depth:         |                                   | 0-12         | 0-12      | 0-12         | 0-12      | 0-12         | 0-12      |              |    |              |    |              |    |
| Sample Type:          |                                   | Field        | Field     | Field        | Field     | Field        | Field     |              |    |              |    |              |    |
| Metals                |                                   | Result       | Q         | Result       | Q         | Result       | Q         | Result       | Q  | Result       | Q  |              |    |
| Aluminum              | 7,700                             | <b>8990</b>  |           | <b>11100</b> |           | <b>11300</b> |           | <b>13500</b> |    | <b>13100</b> |    | <b>12900</b> |    |
| Antimony              | 3.1                               | 1.3          | UJ        | 1.3          | UJ        | 1.2          | UJ        | 1.3          | UJ | 1.3          | UJ | 1.1          | UJ |
| Arsenic               | 0.68                              | <b>5.7</b>   |           | <b>4.3</b>   |           | <b>6.5</b>   |           | <b>9.7</b>   |    | <b>4.4</b>   |    | <b>4.9</b>   |    |
| Barium                | 1,500                             | 39.3         |           | 40.3         |           | 47.7         |           | 44.2         |    | 26.8         |    | 41.3         |    |
| Beryllium             | 16                                | 0.56         | J         | 0.44         | J         | 0.36         | J         | 0.56         | J  | 0.50         | J  | 0.46         | J  |
| Cadmium               | 7.1                               | 0.35         | J         | 0.31         | J         | 0.67         |           | 0.22         | J  | 0.10         | J  | 0.31         | J  |
| Calcium               | NL                                | 1720         | J         | 1240         | J         | 3320         | J         | 936          | J  | 479          | J  | 875          | J  |
| Chromium <sup>1</sup> | 12,000                            | 18.2         | J         | 23.6         | J         | 19.6         | J         | 17.1         | J  | 17.1         | J  | 16.6         | J  |
| Cobalt                | 2.3                               | <b>5.8</b>   |           | <b>4.7</b>   |           | <b>3.6</b>   |           | <b>5.5</b>   |    | <b>4.6</b>   |    | <b>5.8</b>   |    |
| Copper                | 310                               | 19.1         | J         | 16.6         | J         | 25.2         | J         | 19.8         | J  | 14.9         | J  | 16.5         | J  |
| Iron                  | 5,500                             | <b>12300</b> |           | <b>13500</b> |           | <b>12300</b> |           | <b>15200</b> |    | <b>17800</b> |    | <b>17400</b> |    |
| Lead <sup>2</sup>     | 400                               | 61.6         | J         | 46.6         | J         | 70.9         | J         | 47.8         | J  | 38.8         | J  | 190          | J  |
| Magnesium             | NL                                | 1560         | J         | 1700         | J         | 1670         | J         | 1810         | J  | 2090         | J  | 1850         | J  |
| Manganese             | 180                               | <b>553</b>   |           | <b>231</b>   |           | 167          |           | <b>282</b>   |    | 145          |    | <b>293</b>   |    |
| Mercury               | 1.1                               | 0.16         |           | 0.095        | J         | 0.079        | J         | 0.15         |    | 0.095        | J  | 0.085        | J  |
| Nickel                | 150                               | 12.6         |           | 11.6         |           | 9.2          |           | 10.2         |    | 10.2         |    | 11.1         |    |
| Potassium             | NL                                | 1190         |           | 933          |           | 1020         |           | 1030         |    | 1420         |    | 1220         |    |
| Selenium              | 390                               | 0.94         | J         | 0.41         | J         | 3.1          | U         | 0.58         | J  | 0.44         | J  | 0.60         | J  |
| Silver                | 390                               | 0.11         | J         | 0.49         | J         | 0.31         | J         | 0.091        | J  | 0.67         | U  | 0.10         | J  |
| Sodium                | NL                                | 26.5         | J         | 71.2         | J         | 35.9         | J         | 38.0         | J  | 27.7         | J  | 87.2         | J  |
| Thallium              | 0.078                             | 0.67         | U         | 0.63         | U         | 0.62         | U         | 0.65         | U  | 0.67         | U  | 0.57         | U  |
| Vanadium              | 39                                | 31.1         |           | 25.4         |           | 16.2         |           | 25.9         |    | 28.5         |    | 25.7         |    |
| Zinc                  | 2,300                             | <b>193</b>   |           | 76.1         |           | 116          |           | <b>203</b>   |    | 49.0         |    | <b>233</b>   |    |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 9  
Norwood Landfill  
Residential Surface Soil Samples  
Inorganic Analytical Results

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | NL-RS-12     | NL-RS-13     | NL-RS-14     | NL-RS-15     | NL-RS-16     | NL-RS-17     | NL-RS-17D          |              |              |              |              |              |              |              |
|-----------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CLP Sample Number:    |                                   | MC0AG5       | MC0AG4       | MC0AG3       | MC0AG2       | MC0AH6       | MC0AH9       | MC0AJ0             |              |              |              |              |              |              |              |
| Units:                |                                   | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        | µg/kg              |              |              |              |              |              |              |              |
| Sample Date:          |                                   | 5/23/2018    | 5/23/2018    | 5/23/2018    | 5/23/2018    | 5/23/2018    | 5/24/2018    | 5/24/2018          |              |              |              |              |              |              |              |
| Sample Depth:         |                                   | 0-12         | 0-12         | 0-12         | 0-12         | 0-12         | 0-12         | 0-12               |              |              |              |              |              |              |              |
| Sample Type:          |                                   | Field        | Field        | Field        | Field        | Field        | Field        | Dup of NL-RP-SS-17 |              |              |              |              |              |              |              |
| Metals                | Result                            | Q            | Result       | Q            | Result       | Q            | Result       | Q                  | Result       | Q            | Result       | Q            | Result       | Q            |              |
| Aluminum              | 7,700                             |              | <b>12600</b> |              | <b>12800</b> |              | <b>12200</b> |                    | <b>12500</b> |              | <b>11800</b> |              | <b>11800</b> |              | <b>11800</b> |
| Antimony              | 3.1                               | 1.1          | UJ           | 1.3          | UJ           | 1.2          | UJ           | 1.2                | UJ           | 1.3          | UJ           | 1.0          | UJ           | 1.1          | UJ           |
| Arsenic               | 0.68                              | <b>4.9</b>   |              | <b>5.3</b>   |              | <b>4.4</b>   |              | <b>5.4</b>         |              | <b>8.2</b>   |              | <b>4.7</b>   |              | <b>5.1</b>   |              |
| Barium                | 1,500                             | 39.0         |              | 45.4         |              | 29.4         |              | 38.9               |              | 44.4         |              | 53.0         |              | 60.0         |              |
| Beryllium             | 16                                | 0.54         | J            | 0.60         | J            | 0.54         | J            | 0.37               | J            | 0.60         | J            | 0.52         |              | 0.49         | J            |
| Cadmium               | 7.1                               | 0.31         | J            | 0.37         | J            | 0.58         | U            | 0.33               | J            | 0.44         | J            | 0.19         | J            | 0.22         | J            |
| Calcium               | NL                                | 1380         | J            | 895          | J            | 209          | J            | 1750               | J            | 2130         | J            | 1130         | J            | 1620         | J            |
| Chromium <sup>1</sup> | 12,000                            | 18.5         | J            | 17.2         | J            | 17.5         | J            | 18.9               | J            | 22.6         | J            | 14.1         | J            | 17.4         | J            |
| Cobalt                | 2.3                               | <b>6.8</b>   |              | <b>6.9</b>   |              | <b>6.2</b>   |              | <b>5.7</b>         |              | <b>7.2</b>   |              | <b>6.7</b>   |              | <b>5.2</b>   |              |
| Copper                | 310                               | 17.5         | J            | 15.1         | J            | 12.8         | J            | 30.0               | J            | 18.9         | J            | 15.6         | J            | 14.6         | J            |
| Iron                  | 5,500                             | <b>18500</b> |              | <b>16400</b> |              | <b>16700</b> |              | <b>16900</b>       |              | <b>17100</b> |              | <b>14500</b> |              | <b>15500</b> |              |
| Lead <sup>2</sup>     | 400                               | 54.7         | J            | 69.2         | J            | 35.9         | J            | 41.3               | J            | 30.6         | J            | 37.4         | J            | 38.2         | J            |
| Magnesium             | NL                                | 2050         | J            | 2000         | J            | 1880         | J            | 2160               | J            | 2940         | J            | 1620         | J            | 1900         | J            |
| Manganese             | 180                               | <b>429</b>   |              | <b>342</b>   |              | <b>189</b>   |              | <b>257</b>         |              | <b>283</b>   |              | <b>322</b>   |              | <b>283</b>   |              |
| Mercury               | 1.1                               | 0.076        | J            | 0.078        | J            | 0.17         |              | 0.14               |              | 0.032        | J            | 0.034        | J            | 0.053        | J            |
| Nickel                | 150                               | 14.4         |              | 11.5         |              | 11.6         |              | 11.2               |              | 14.3         |              | 10.9         |              | 9.7          |              |
| Potassium             | NL                                | 1230         |              | 1050         |              | 1090         |              | 1280               |              | 1420         |              | 1030         |              | 1170         |              |
| Selenium              | 390                               | 0.74         | J            | 3.2          | U            | 2.9          | U            | 0.42               | J            | 3.2          | U            | 0.37         | J            | 0.42         | J            |
| Silver                | 390                               | 0.57         | U            | 0.63         | U            | 0.58         | U            | 3.7                |              | 0.64         | U            | 0.50         | U            | 0.54         | U            |
| Sodium                | NL                                | 26.3         | J            | 30.3         | J            | 22.0         | J            | 29.3               | J            | 84.2         | J            | 61.1         | J            | 55.5         | J            |
| Thallium              | 0.078                             | 0.57         | U            | 0.63         | U            | 0.58         | U            | 0.58               | U            | 0.64         | U            | 0.50         | U            | 0.54         | U            |
| Vanadium              | 39                                | 30.4         |              | 28.7         |              | 25.8         |              | 23.8               |              | 32.8         |              | 20.9         |              | 24.5         |              |
| Zinc                  | 2,300                             | 152          |              | 54.3         |              | 52.8         |              | 132                |              | 95.2         |              | 113          |              | 139          |              |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

Table 9  
Norwood Landfill  
Residential Surface Soil Samples  
Inorganic Analytical Results

| Sample Number:        | EPA RSL<br>Residential<br>(mg/kg) | NL-RS-18     | NL-RS-19  | NL-RS-20     | NL-RS-21  | NL-2017-SS-17 | NL-2017-SS-18 |              |        |              |        |              |    |
|-----------------------|-----------------------------------|--------------|-----------|--------------|-----------|---------------|---------------|--------------|--------|--------------|--------|--------------|----|
| CLP Sample Number:    |                                   | MC0AJ1       | MC0AJ2    | MC0AJ3       | MC0AJ4    | MC0AC8        | MC0AC9        |              |        |              |        |              |    |
| Units:                |                                   | mg/kg        | mg/kg     | mg/kg        | mg/kg     | mg/kg         | mg/kg         |              |        |              |        |              |    |
| Sample Date:          |                                   | 5/24/2018    | 5/24/2018 | 5/24/2018    | 5/24/2018 | 9/28/2017     | 9/28/2017     |              |        |              |        |              |    |
| Sample Depth:         |                                   | 0-12         | 0-12      | 0-12         | 0-12      | 0-6           | 0-6           |              |        |              |        |              |    |
| Sample Type:          |                                   | Field        | Field     | Field        | Field     | Background    | Background    |              |        |              |        |              |    |
| Metals                | Result                            | Q            | Result    | Q            | Result    | Q             | Result        | Q            | Result | Q            | Result | Q            |    |
| Aluminum              | 7,700                             | <b>11100</b> |           | <b>9500</b>  |           | <b>10800</b>  |               | <b>12800</b> |        | <b>7970</b>  |        | 5970         |    |
| Antimony              | 3.1                               | 1.5          | UJ        | <b>4.2</b>   | J         | 1.3           | UJ            | 1.5          | UJ     | 1.1          | J      | 0.72         | J  |
| Arsenic               | 0.68                              | <b>4.8</b>   |           | <b>5.9</b>   |           | <b>4.4</b>    |               | <b>7.8</b>   |        | <b>5.9</b>   |        | <b>4.5</b>   |    |
| Barium                | 1,500                             | 94.0         |           | 181          |           | 64.3          |               | 90.2         |        | 55.6         |        | 63.5         |    |
| Beryllium             | 16                                | 0.24         | J-        | 0.24         | J-        | 0.24          | J-            | 0.33         | J-     | 0.63         |        | 0.45         |    |
| Cadmium               | 7.1                               | 0.40         | J         | <b>3.4</b>   |           | 1.2           |               | 0.43         | J      | 0.67         |        | 0.70         |    |
| Calcium               | NL                                | 1900         |           | 8960         |           | 2690          |               | 2060         |        | 1610         |        | 4600         |    |
| Chromium <sup>1</sup> | 12,000                            | 20.8         |           | 25.2         |           | 26.1          |               | 20.4         |        | 15.8         |        | 16.9         |    |
| Cobalt                | 2.3                               | <b>6.7</b>   |           | <b>6.7</b>   |           | <b>7.1</b>    |               | <b>6.6</b>   |        | <b>4.4</b>   |        | <b>3.8</b>   | J  |
| Copper                | 310                               | 31.3         |           | <b>264</b>   |           | 33.3          |               | 29.1         |        | 18.3         |        | 19.8         |    |
| Iron                  | 5,500                             | <b>15200</b> |           | <b>25300</b> |           | <b>15500</b>  |               | <b>18200</b> |        | <b>14300</b> |        | <b>11600</b> |    |
| Lead <sup>2</sup>     | 400                               | 129          |           | <b>1800</b>  |           | 110           |               | <b>283</b>   |        | 84.4         |        | 74.4         |    |
| Magnesium             | NL                                | 2380         |           | 4250         |           | 2120          |               | 1710         |        | 1940         |        | 3560         |    |
| Manganese             | 180                               | <b>286</b>   |           | <b>419</b>   |           | <b>373</b>    |               | <b>479</b>   |        | 179          |        | <b>206</b>   |    |
| Mercury               | 1.1                               | 0.10         | J         | 0.88         |           | 0.076         | J             | 0.36         |        | 0.18         |        | 0.38         |    |
| Nickel                | 150                               | 13.7         |           | 29.3         |           | 23.3          |               | 11.9         |        | 11.5         |        | 11.0         |    |
| Potassium             | NL                                | 1490         |           | 1040         |           | 1080          |               | 1310         |        | 515          |        | 173          | J  |
| Selenium              | 390                               | 0.65         | J         | 1.0          | J         | 0.74          | J             | 1.0          | J      | 2.8          | UJ     | 3.1          | UJ |
| Silver                | 390                               | 0.22         | J         | 0.42         | J         | 0.24          | J             | 0.21         | J      | 0.54         | J      | 0.51         | J  |
| Sodium                | NL                                | 26.6         | J         | 69.3         | J         | 56.1          | J             | 84.4         | J      | 79.4         | J      | 67.3         | J  |
| Thallium              | 0.078                             | 0.74         | U         | 0.72         | U         | 0.63          | U             | 0.76         | U      | 2.0          | U      | 2.2          | U  |
| Vanadium              | 39                                | 29.0         |           | 25.3         |           | 30.3          |               | 37.9         |        | 38.1         |        | 33.7         |    |
| Zinc                  | 2,300                             | 161          |           | <b>914</b>   |           | <b>828</b>    |               | <b>196</b>   |        | 62.3         |        | 92.2         |    |

Notes:

Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (Ref. 10)

Bold values indicate exceedance of residential RSL

Red values indicate 3x background values (or above background RDL if background is non-detect)

<sup>1</sup> There is no RSL for total chromium; values shown are for chromium III

<sup>2</sup> There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use

mg/kg = milligrams per kilogram

J = Reported value is estimated; actual value may be higher or lower

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NL = No listed value

Q = Qualifier

**ATTACHMENT 1**

**HISTORICAL AERIAL PHOTOGRAPHS AND NEWSPAPER CLIPPINGS**

Norwood Landfill

1937 Aerial





Norwood Landfill

1957 Aerial



# Norwood Landfill

1958 Aerial  
6/7/1958



# Norwood Landfill

1958 Aerial  
(6/14/1958)



Norwood Landfill

1959 Aerial



Norwood Landfill

1965 Aerial



Norwood Landfill

1967 Aerial



Norwood Landfill

1971 Aerial



Norwood Landfill

1971 Aerial





**ATTACHMENT 2**

**EPA RESIDENTIAL SOIL EVALUATION**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103**

**SUBJECT:** Norwood Expanded Site Inspection  
Residential Soil Evaluation  
Surface Soil (0-0.5 ft), (2-4 ft) and (8-10ft)

**FROM:** Linda Watson, Toxicologist  
Technical Support Branch (3HS41)

**TO:** Joe Vitello, SAM  
Site Assessment Manager

**DATE:** August 12, 2021

Per the attached risk calculation memos that were sent to you on June 24, 2021 and July 13, 2021, individual risk assessments were performed for the following medium and depths:

- Surface soil (0-0.5 ft) at 64 Residential properties, including 5 duplicate samples.
- Subsurface soil (2 -4 ft) at 32 Residential properties, including 3 duplicate samples.
- Subsurface soil (8-10 ft) at 12 Residential properties, including 1 duplicate sample.

**Surface Soil (0-0.5 feet)**

- Sixty-four (64) Residential properties were below or within EPA's acceptable non-cancer and cancer risk criteria when assuming chromium is present in its trivalent form.
- Thirty-six (36) Residential properties were below or within EPA's acceptable non-cancer and cancer criteria when assuming 100% of chromium is present in the hexavalent form.
- Twenty-eight Residential properties *exceed* EPA's acceptable criteria when assuming 100% of chromium is present in the hexavalent form.
- Residential surface soil (0-0.5 ft) data set range is 7.2 – 366 mg/kg.  
When removing the highest detection the range is 7.2 mg/kg – 56.4 mg/kg.
- Background soil (0-0.5 ft) ranges from 4.8 mg/kg – 37.2 mg/kg.
- Background analysis using ProUCL indicates all residential properties are within background for chromium with the exception of the following Residential properties:
  - Resident 121 – chromium (SS-52.2 mg/kg)
  - **Resident 131 – chromium (CS-178 mg/kg, SS-366mg/kg)**
  - Resident 135 – chromium (CS-41.2 mg/kg, SS-46.5 mg/kg)
  - Resident 146 – chromium (CS-46.1 mg/kg)
  - Resident 154 – chromium (CS-56.4 mg/kg)

**Conclusion**

For all samples with total risk at or above the lifetime Cancer Risk (CR) level of concern, the CR was almost entirely due to chromium. Since chromium speciation has not been performed it is uncertain if chromium is present in trivalent or hexavalent form (or combination). If the chromium is not completely hexavalent, then the risk would be considerably lower (See 1<sup>st</sup> bullet). Moreover, even if the chromium present is entirely hexavalent, it appears these levels of chromium are consistent with background, with the exception of the above 5 listed residential properties. Ultimately, we conclude that the

chromium is unlikely to be a site-related chemical of concern in these yards. However, speciation analysis is recommended at the above residential locations, in particular at Residential 131, to determine whether the chromium is substantially hexavalent.

### **Sub-Surface Soil (2-4 feet)**

- Thirty-two (32) Residential properties were below or within EPA's acceptable non-cancer and cancer risk criteria when assuming chromium is present in its trivalent form.
- Eighteen (18) Residential properties were below or within EPA's acceptable non-cancer and cancer criteria when assuming 100% of chromium is present in the hexavalent form.
- Fourteen (14) Residential properties *exceed* EPA's acceptable criteria when assuming 100% of chromium is present in the hexavalent form.
- Residential site data set range is 7.2 – 366 mg/kg. When this highest detection is removed, data range is 7.2 mg/kg – 56.4 mg/kg.
- Background soil (0-0.5 ft) ranges from 4.8 mg/kg – 37.2 mg/kg.
- Background analysis using ProUCL indicates all residential properties are within background for chromium.
- Residential subsurface soil (2-4 ft) data set is 9.9 to 27.4 mg/kg.
- Background subsurface soil (2-4 ft) data set is 10.1 to 50.2 mg/kg.
- Residential sample location SB-147, exceeds EPA's non-cancer threshold (HI=3.4) due to manganese. **Manganese in this sample (2060 mg/kg)** also was much higher than manganese in background soil samples obtained at the 2-4-foot depth (37.9 to 495 mg/kg), and thus could not be attributed to background.

### **Conclusion**

For all samples with total risk at or above the lifetime Cancer Risk (CR) level of concern, the CR was almost entirely due to chromium. Since chromium speciation has not been performed it is uncertain if chromium is present in trivalent or hexavalent form (or combination). If the chromium is not completely hexavalent, then the risk would be considerably lower (See 1<sup>st</sup> bullet). Moreover, even if the chromium present is entirely hexavalent, it appears these levels of chromium are consistent with background.

For non-cancer manganese exceeds EPA's non-cancer threshold at Residential location SB-147.

### **Sub-Surface Soil (8-10 feet)**

- Twelve (12) Residential properties were below or within EPA's acceptable non-cancer and cancer risk criteria when assuming chromium is present in its trivalent form.
- Six (6) Residential properties were below or within EPA's acceptable non-cancer and cancer criteria when assuming 100% of chromium is present in the hexavalent form.
- Six (6) Residential properties *exceed* EPA's acceptable criteria when assuming 100% of chromium is present in the hexavalent form.
- Residential subsurface soil (8-10ft) data set range is 8.5 – 67.3 mg/kg.
- Background soil (8-10ft) ranges from 16.2 mg/kg – 17 mg/kg.
- Background analysis using ProUCL indicates all residential properties are within background for chromium with the exception of the following Residential properties:
  - DB-115 chromium – 42 mg/kg
  - DB-119 chromium – 67.3 mg/kg

## **Recommendation**

Comfort letters should be sent to all Residents sampled indicating risk were determined to be below or within EPA's acceptable criteria and/or background levels with the exception of the following locations:

- Resident 121 – chromium (SS-52.2 mg/kg)
- *Resident 131 – chromium (CS-178 mg/kg, SS-366mg/kg)*
- Resident 135 – chromium (CS-41.2 mg/kg, SS-46.5 mg/kg)
- Resident 146 – chromium (CS-46.1 mg/kg)
- Resident 154 – chromium (CS-56.4 mg/kg)
- *Resident 147 – manganese – 2060 mg/kg*
- DB-115 chromium – 42 mg/kg
- DB-119 chromium – 67.3 mg/kg

Risk management decisions should be made in respect to how these locations will be addressed to completely rule out chromium and manganese. Additional sampling at these locations and speciation analysis should be considered. Please note, DB-115 and DB-119 are at depth and thus creates an incomplete exposure pathway to current Residents.

If you need assistance with composing comfort letters to Residents, please contact me at X3116.

cc: R3\_TSB Comment File  
Region 3\_STCRecord\_CTR

**ATTACHMENT 3**

**CLP DATA VALIDATION REPORTS**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 11/16/2020  
SUBJECT: Region III Data QA Review  
FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# C0AJ6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020043





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 12, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49088 COAJ6

### **Overview**

This data package consisted of two (2) sediment samples and eighteen (18) soil samples including a field duplicate pair analyzed for volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 20, 2020.

### **Summary**

Significant data quality outliers regarding Deuterated Monitoring Compounds (DMC) in semivolatile fraction, surrogate in pesticide fraction and dual column precision in pesticide and Aroclor fractions were identified that resulted in rejection of results. Less significant data quality outliers were identified that resulted in estimation of sample results, including but not limited to, surrogates in pesticide and Aroclor fractions and matrix spike in pesticide fraction as detailed below.

### **Major Problems**

Recovery of surrogate Tetrachloro-m-xylene (TCX) was <10% on one column and less than the lower control limit on the other column in pesticide sample COAS2. Positive results in this sample have been qualified "J". Quantitation limits have been rejected and qualified "R".

Recoveries for the following DMCs were <10% in semivolatiles listed. No positive results were reported for analytes associated with these DMCs. Quantitation limits for analytes associated with these DMCs have been rejected and qualified "R".

| Fraction      | DMC                                       | Affected Sample (s) |
|---------------|---|---------------------|
| Semivolatiles | 4,6-Dinitro-2-methylphenol-d <sub>2</sub> | COAK6, COAS2        |
|               | 4-Nitrophenol-d <sub>4</sub>              | COAL2               |

The following analytes reported percent difference (%D) >200% in pesticide or Aroclor dual column analyses for samples listed. The significant %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed have been rejected and qualified "R".

| Fraction  | Affected Analyte (s)      | Affected Samples    |
|-----------|---------------------------|---------------------|
| Pesticide | Dieldrin, trans-Chlordane | COAK6, COAQ1        |
|           | trans-Chlordane           | COAL5, COAL7, COAS2 |
|           | 4,4'-DDT                  | COAL6, COAP1        |
|           | Endrin                    | COAP2               |
| Aroclor   | Aroclor 1260              | COAP1               |

### Minor Problems

Recoveries for surrogate Decachlorobiphenyl (DCB) were outside the upper control limit on one analytical column in pesticide sample COAP2 and Aroclor sample COAP1. Positive results in these samples have been qualified "J".

The recovery for 4,4'-DDT was outside the upper control limit on one analytical column in pesticide matrix spike duplicate analysis of sample COAP4. The positive result for this analyte in this sample has been qualified "J".

The following analytes exceeded the calibration range in the diluted analysis of samples listed. Positive results for these analytes in the affected samples have been qualified "J".

| Fraction | Affected Analytes  | Affected Sample |
|----------|--|-----------------|
| PAH SIM  | Fluoranthene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene       | COAL6           |
|          | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene | COAP1           |

### Notes

Detected concentrations for target analytes less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J".

Pesticide and Aroclor results with %D >25% but <200% between the two analytical columns have been qualified "J".



Laboratory blanks were free of contamination in all fractions with the exception of acetone and methylene chloride <CRQL in volatile blanks VBLK23, VBLK24 and VBLK26 and methylene chloride in volatile blanks VBLK22 and VHBLK01. Positive results for these analytes <CRQL in samples associated with these blanks have been raised to the CRQL and qualified "U".

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Trip blanks COAS0 and COAS6 collected 9/28/20 and 9/29/20, respectively, are associated with samples in this SDG. The two trip blanks were analyzed in SDG COAR2. No positive results were reported in sample COAS0. Chloromethane, acetone and toluene were detected in sample COAS6. These analytes were not detected in samples associated with this trip blank. No data were qualified based on trip blanks.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for samples listed below. The samples were reanalyzed at dilution listed in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction     | Sample | DF  | Affected Analytes  |
|--------------|--------|-----|--|
| Semivolatile | COAK6  | 2X  | Phenanthrene, Pyrene   |
|              | COAP2  | 10X | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene           |
|              | COAS2  | 10X | Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene |
| PAH          | COAL5  | 2X  | Fluoranthene   |
|              | COAL6  | 5X  | Phenanthrene, Anthracene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene                 |
|              | COAL7  | 2X  | Fluoranthene   |
|              | COAP1  | 5X  | Anthracene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)Pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene                       |
|              | COAP4  | 5X  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene                       |
|              | COAQ1  | 5X  | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
| Pesticide    | COAL6  | 2X  | cis-Chlordane, trans-Chlordane   |
|              | COAP1  | 5X  | 4,4'-DDD   |

Samples COAK6, COAP2 and COAS2 were not analyzed for PAH SIM fraction due the high concentration of analytes in semivolatile fraction for these samples. No data were qualified based on this finding.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide sample COAP4 reported acceptable results with the exception of recovery outside the upper control limit for 4,4'-DDT in MSD analysis on one column. The positive result for 4,4'-DDT in the parent sample has been qualified "J" as reported under "Minor Problems".

MS/MSD analyses of Aroclor sample C0AP4 reported recoveries outside the upper control limit on both columns for Aroclor 1016 and 1260. No positive results were reported for these analytes in the parent sample. No data were qualified based on these outliers.

Recoveries for two DMCs were outside the upper control limits in semivolatile sample C0AK0. No positive results were reported for analytes associated with these DMCs in this sample. No data were qualified based on these outliers.

Recoveries of surrogates TCX or DCB were outside the upper control limits in several Aroclor samples. No positive results were reported for Aroclors in the affected samples. No data were qualified based on these outliers.

Results for the field duplicate pair, samples C0AP2/C0AS2 were within control limits of 25% Relative Percent Difference (RPD) or + CRQL for all analytes except as noted below. Data are not qualified based on field duplicate precision.

| Fraction     | Analyte not comparable in field duplicate   |
|--------------|---|
| Semivolatile | 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluorene, Carbazole              |
| Pesticide    | gamma-BHC, Dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT, cis-Chlordane, trans-Chlordane |

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been “tentatively identified” or “presumptively” as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: ABLK99

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: ALCS99

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 29                | JP              | ug/kg | 29         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 31                | JP              | ug/kg | 31         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AJ6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-21

pH:

Sample Date: 09/28/2020

Sample Time: 08:45:00

% Moisture:

% Solids: 83.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AJ6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                    | % Solids: 83.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AJ6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                       | % Solids: 83.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 180               | N               | ug/kg | 180        | N        | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                              | % Solids: 83.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.8               |                 | ug/kg | 4.8        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 83.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 2.8        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.0               | U               | ug/kg | 2.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AJ7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-22

pH:

Sample Date: 09/28/2020

Sample Time: 11:15:00

% Moisture:

% Solids: 91.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AJ7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                    | % Solids: 91.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.59              | J               | ug/kg | 0.59       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.58              | J               | ug/kg | 0.58       | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AJ7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                       | % Solids: 91.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 73                | U               | ug/kg | 73         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 800               | N               | ug/kg | 800        | N        | 1.0             | YES        | NV               |
| 1-Heneicosanol             | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Guaia-3,9-diene            | TIC          | 630               | JN              | ug/kg | 630        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                              | % Solids: 91.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.98              | J               | ug/kg | 0.98       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.6               |                 | ug/kg | 7.6        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 6.3               |                 | ug/kg | 6.3        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 9.2               |                 | ug/kg | 9.2        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                           | % Solids: 91.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 2.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ6

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AK0           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:              | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                  | % Solids: 84.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                    | % Solids: 84.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                       | % Solids: 84.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 870               |                 | ug/kg | 870        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Ethanol, 2-(2-ethoxyethoxy)-       | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| 1-Heneicosanol                     | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid                  | TIC          | 79                | JN              | ug/kg | 79         | JN       | 1.0             | YES        | NV               |
| 1-Heptacosanol                     | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                              | % Solids: 84.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK0           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                           | % Solids: 84.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.3               | U               | ug/kg | 2.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AK6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-31

pH:

Sample Date: 09/28/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 82.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-31 | pH:                | Sample Date: 09/28/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                    | % Solids: 82.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2.4               | R               | ug/kg | 2.4        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.1               | J               | ug/kg | 3.1        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 8.5               | J               | ug/kg | 8.5        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 7.6               | J               | ug/kg | 7.6        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.4               | R               | ug/kg | 3.4        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-31 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                       | % Solids: 82.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 440               |                 | ug/kg | 440        |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 650               |                 | ug/kg | 650        |          | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | R               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 4600              |                 | ug/kg | 4600       | D        | 2.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 290               | J               | ug/kg | 290        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 4800              |                 | ug/kg | 4800       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 4800              |                 | ug/kg | 4800       | D        | 2.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 2600              |                 | ug/kg | 2600       |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 2200              |                 | ug/kg | 2200       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 2600              |                 | ug/kg | 2600       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 2200              |                 | ug/kg | 2200       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 440               |                 | ug/kg | 440        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene, 1,7-dimethyl-         | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 2-methyl-              | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,4,5-trimethyl-       | TIC          | 84                | JN              | ug/kg | 84         | JN       | 1.0             | YES        | NV               |
| 1(2H)-Acenaphthylene                | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Dibenzofuran, 4-methyl-             | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1-methyl-              | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4,5-dimethyl-         | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,6-dimethyl-          | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene      | TIC          | 1200              | JN              | ug/kg | 1200       | JN       | 1.0             | YES        | NV               |
| 8-Dimethylaminonaphthalene-1-carbo  | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 9H-Fluorene-9-one                   | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-methyl-               | TIC          | 590               | JN              | ug/kg | 590        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,3,6-trimethyl-       | TIC          | 89                | JN              | ug/kg | 89         | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[l]phenanthrene, 1a,9b | TIC          | 390               | JN              | ug/kg | 390        | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 9-methyl-              | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| 6-Phenylbenzocyclohepten-7-one      | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |
| Benzo[f]quinoline                   | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 6H-Dibenzo[b,d]-pyran               | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Naphtho[2,3-b]thiophene             | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,3-dimethyl-          | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,7-dimethyl-          | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-             | TIC          | 390               | JN              | ug/kg | 390        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione                | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1-phenyl-              | TIC          | 82                | JN              | ug/kg | 82         | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-             | TIC          | 950               | JN              | ug/kg | 950        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene, 3-methyl-         | TIC          | 99                | JN              | ug/kg | 99         | JN       | 1.0             | YES        | NV               |
| Diphenylmethane                     | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 3,6-dimethyl-         | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 1-Isopropenyl-naphthalene           | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,6,7-trimethyl-       | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-31 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                           | % Solids: 82.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.7               | J               | ug/kg | 5.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.9               | U               | ug/kg | 2.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AL2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-37

pH:

Sample Date: 09/28/2020

Sample Time: 15:20:00

% Moisture:

% Solids: 81.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                    | % Solids: 81.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.80              | J               | ug/kg | 0.80       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                       | % Solids: 81.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 44                | J               | ug/kg | 44         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | R               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Cholesterol                           | TIC          | 950               | JN              | ug/kg | 950        | JN       | 1.0             | YES        | NV               |
| Trichloroacetic acid, hexadecyl<br>es | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL2           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                              | % Solids: 81.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 5.7               |                 | ug/kg | 5.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 6.2               |                 | ug/kg | 6.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               |                 | ug/kg | 4.1        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                           | % Solids: 81.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.0               | U               | ug/kg | 2.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.83              | J               | ug/kg | 0.83       | J        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AL5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-40

pH:

Sample Date: 09/28/2020

Sample Time: 09:30:00

% Moisture:

% Solids: 86.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                    | % Solids: 86.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.23              | J               | ug/kg | 0.23       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.71              | J               | ug/kg | 0.71       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.2               | J               | ug/kg | 3.2        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.80              | R               | ug/kg | 0.80       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                       | % Solids: 86.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 40                | J               | ug/kg | 40         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 1100              | N               | ug/kg | 1100       | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| 1-Heneicosanol             | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                              | % Solids: 86.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.8               | U               | ug/kg | 7.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 69                |                 | ug/kg | 69         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                           | % Solids: 86.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 2.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.54              | J               | ug/kg | 0.54       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ6

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AL6           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:              | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                  | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 110               | J               | ug/kg | 110        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                    | % Solids: 77.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 6.4               | J               | ug/kg | 6.4        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 29                | J               | ug/kg | 29         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.8               | R               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 50                | J               | ug/kg | 50         | DP       | 2.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 64                |                 | ug/kg | 64         | D        | 2.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                       | % Solids: 77.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 320               | J               | ug/kg | 320        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Octadecanoic acid, butyl ester     | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Hexadecanoic acid, 1,1-dimethyleth | TIC          | 88                | JN              | ug/kg | 88         | JN       | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-       | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 690               | N               | ug/kg | 690        | N        | 1.0             | YES        | NV               |
| 1,3-Dioxolane, 2-(methoxymethyl)-2 | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid                  | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 410               | JN              | ug/kg | 410        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                              | % Solids: 77.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 5.7               |                 | ug/kg | 5.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 67                |                 | ug/kg | 67         | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 400               | J               | ug/kg | 400        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 620               | J               | ug/kg | 620        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 350               | J               | ug/kg | 350        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                           | % Solids: 77.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.0               | U               | ug/kg | 2.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Benzene, 1,3-bis(1,1-dimethylethyl | TIC          | 3.9               | JN              | ug/kg | 3.9        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AL7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-42

pH:

Sample Date: 09/28/2020

Sample Time: 12:15:00

% Moisture:

% Solids: 81.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-42 | pH:                | Sample Date: 09/28/2020 | Sample Time: 12:15:00 |
| % Moisture:                    |                    | % Solids: 81.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.9               |                 | ug/kg | 5.9        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.0               | J               | ug/kg | 3.0        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.70              | J               | ug/kg | 0.70       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.51              | R               | ug/kg | 0.51       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-42 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 12:15:00 |
| % Moisture:                    |                       | % Solids: 81.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid            | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Heptadecyl heptafluorobutyrate | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          | 540               | N               | ug/kg | 540        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-42 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 12:15:00 |
| % Moisture:                    |                              | % Solids: 81.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.3               |                 | ug/kg | 6.3        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 46                |                 | ug/kg | 46         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 6.5               |                 | ug/kg | 6.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-42 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 12:15:00 |
| % Moisture:                    |                           | % Solids: 81.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.1               | U               | ug/kg | 3.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AM1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-21

pH:

Sample Date: 09/28/2020

Sample Time: 09:00:00

% Moisture:

% Solids: 81.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM1           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-21 | pH:                | Sample Date: 09/28/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                    | % Solids: 81.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM1           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-21 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                       | % Solids: 81.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Eicosanoic acid, 2,3-bis(acetyloxy) | TIC          | 290               | JN              | ug/kg | 290        | JN       | 1.0             | YES        | NV               |
| 9-Octadecenamide, (Z)-              | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-        | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                 | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| unknown-01                          | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Supraene                            | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Myristin, 2,3-diaceto-1-            | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Heptadecyl heptafluorobutyrate      | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid                   | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM1           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-21 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                              | % Solids: 81.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM1           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-21 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                           | % Solids: 81.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 2.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ6

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AM2           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:              | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                  | % Solids: 89.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:                | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                    | % Solids: 89.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                       | % Solids: 89.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 270               | N               | ug/kg | 270        | N        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM2           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                              | % Solids: 89.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                           | % Solids: 89.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 6.7               | J               | ug/kg | 6.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.3               | U               | ug/kg | 3.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AM5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-25

pH:

Sample Date: 09/28/2020

Sample Time: 10:05:00

% Moisture:

% Solids: 90.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                    | % Solids: 90.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                       | % Solids: 90.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 74                | U               | ug/kg | 74         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 40                | J               | ug/kg | 40         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Octadecanoic acid                     | TIC          | 89                | JN              | ug/kg | 89         | JN       | 1.0             | YES        | NV               |
| unknown-01                            | TIC          | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          | 240               | N               | ug/kg | 240        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                   | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Trichloroacetic acid, hexadecyl<br>es | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                              | % Solids: 90.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                           | % Solids: 90.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.9               | J               | ug/kg | 5.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 2.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AN1           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:              | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                  | % Solids: 84.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN1           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:                | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                    | % Solids: 84.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.34              | J               | ug/kg | 0.34       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.41              | J               | ug/kg | 0.41       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN1           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                       | % Solids: 84.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 44                | J               | ug/kg | 44         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 240               | N               | ug/kg | 240        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN1           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                              | % Solids: 84.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.85              | J               | ug/kg | 0.85       | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.99              | J               | ug/kg | 0.99       | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.5               |                 | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN1           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                           | % Solids: 84.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.3               | J               | ug/kg | 4.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 2.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AN7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-37

pH:

Sample Date: 09/28/2020

Sample Time: 15:15:00

% Moisture:

% Solids: 85.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                    | % Solids: 85.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                       | % Solids: 85.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| unknown-02                 | TIC          | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 320               | N               | ug/kg | 320        | N        | 1.0             | YES        | NV               |
| Tridecanoic acid           | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Myristin, 1,3-diaceto-2-   | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                              | % Solids: 85.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.8               | U               | ug/kg | 7.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.82              | J               | ug/kg | 0.82       | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                           | % Solids: 85.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 7.0               | J               | ug/kg | 7.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.8               | U               | ug/kg | 2.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-40

pH:

Sample Date: 09/28/2020

Sample Time: 10:00:00

% Moisture:

% Solids: 87.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-40 | pH:                | Sample Date: 09/28/2020 | Sample Time: 10:00:00 |
| % Moisture:                    |                    | % Solids: 87.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-40 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 10:00:00 |
| % Moisture:                    |                       | % Solids: 87.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 76                | U               | ug/kg | 76         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Heptadecyl heptafluorobutyrate | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-   | TIC          | 89                | JN              | ug/kg | 89         | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid            | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          | 100               | N               | ug/kg | 100        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-40 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 10:00:00 |
| % Moisture:                    |                              | % Solids: 87.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.97              | J               | ug/kg | 0.97       | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.80              | J               | ug/kg | 0.80       | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.91              | J               | ug/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP0           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-40 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 10:00:00 |
| % Moisture:                    |                           | % Solids: 87.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.1               | U               | ug/kg | 2.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.49              | J               | ug/kg | 0.49       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-41

pH:

Sample Date: 09/28/2020

Sample Time: 11:00:00

% Moisture:

% Solids: 76.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 380               | J               | ug/kg | 380        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 240               | R               | ug/kg | 240        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP1           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                    | % Solids: 76.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 35                | J               | ug/kg | 35         | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 5.6               | R               | ug/kg | 5.6        | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 20                | J               | ug/kg | 20         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 28                | J               | ug/kg | 28         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP1           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                       | % Solids: 76.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 760               |                 | ug/kg | 760        |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 680               |                 | ug/kg | 680        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 4000              |                 | ug/kg | 4000       |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 520               |                 | ug/kg | 520        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Octadecanoic acid                  | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, decyl 3-methylbutyl | TIC          | 1900              | JN              | ug/kg | 1900       | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | NV               |
| 10,18-Bisnorabieta-5,7,9(10),11,13 | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 4b,8-Dimethyl-2-isopropylphenanthr | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| 1,2-Benzenedicarboxylic acid, decy | TIC          | 7000              | JN              | ug/kg | 7000       | JN       | 1.0             | YES        | NV               |
| 1,3-Benzenedicarboxylic acid, bis( | TIC          | 2000              | JN              | ug/kg | 2000       | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Tridecane, 1-iodo-                 | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Methoxyacetic acid, 2-tridecyl est | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 790               | N               | ug/kg | 790        | N        | 1.0             | YES        | NV               |
| Octicizer                          | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 610               | JN              | ug/kg | 610        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP1           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                              | % Solids: 76.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 770               | J               | ug/kg | 770        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 680               | J               | ug/kg | 680        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 370               | J               | ug/kg | 370        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 580               | J               | ug/kg | 580        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 400               | J               | ug/kg | 400        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 76                |                 | ug/kg | 76         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP1           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                           | % Solids: 76.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.5               | U               | ug/kg | 2.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-42

pH:

Sample Date: 09/28/2020

Sample Time: 13:00:00

% Moisture:

% Solids: 86.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                | Sample Date: 09/28/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                    | % Solids: 86.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 7.3               | J               | ug/kg | 7.3        | P        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 22                | J               | ug/kg | 22         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 9.1               | J               | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 1.6               | R               | ug/kg | 1.6        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 31                | J               | ug/kg | 31         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 21                | J               | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 12                | J               | ug/kg | 12         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 13                | J               | ug/kg | 13         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                       | % Solids: 86.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 860               |                 | ug/kg | 860        |          | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 2300              |                 | ug/kg | 2300       |          | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 18000             |                 | ug/kg | 18000      | D        | 10.0            | YES        | S4VEM            |
| Anthracene                  | Target       | 5000              |                 | ug/kg | 5000       | D        | 10.0            | YES        | S4VEM            |
| Carbazole                   | Target       | 960               |                 | ug/kg | 960        |          | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 15000             |                 | ug/kg | 15000      | D        | 10.0            | YES        | S4VEM            |
| Pyrene                             | Target       | 13000             |                 | ug/kg | 13000      | D        | 10.0            | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 7300              |                 | ug/kg | 7300       | D        | 10.0            | YES        | S4VEM            |
| Chrysene                           | Target       | 6700              |                 | ug/kg | 6700       | D        | 10.0            | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 5400              |                 | ug/kg | 5400       | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 4800              |                 | ug/kg | 4800       | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 760               |                 | ug/kg | 760        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene, 2,3-dimethyl-         | TIC          | 520               | JN              | ug/kg | 520        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-             | TIC          | 1500              | JN              | ug/kg | 1500       | JN       | 1.0             | YES        | NV               |
| 9,10-Dimethylanthracene            | TIC          | 2200              | JN              | ug/kg | 2200       | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4-methyl-            | TIC          | 1800              | JN              | ug/kg | 1800       | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrene        | TIC          | 1300              | JN              | ug/kg | 1300       | JN       | 1.0             | YES        | NV               |
| Phenol, 4-(2-phenylethenyl)-, (E)- | TIC          | 580               | JN              | ug/kg | 580        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 330               | J               | ug/kg | 330        | J        | 1.0             | YES        | NV               |
| Diphenylmethane                    | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 3-methyl-             | TIC          | 620               | JN              | ug/kg | 620        | JN       | 1.0             | YES        | NV               |
| Dibenzofuran, 4-methyl-            | TIC          | 700               | JN              | ug/kg | 700        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 650               | JN              | ug/kg | 650        | JN       | 1.0             | YES        | NV               |
| Benzaldehyde, 3,5-dichloro-2-hydro | TIC          | 5100              | JN              | ug/kg | 5100       | JN       | 1.0             | YES        | NV               |
| Acridine                           | TIC          | 530               | JN              | ug/kg | 530        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-ol                    | TIC          | 340               | JN              | ug/kg | 340        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene, 3-methyl-        | TIC          | 640               | JN              | ug/kg | 640        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene                   | TIC          | 1200              | JN              | ug/kg | 1200       | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 650               | JN              | ug/kg | 650        | JN       | 1.0             | YES        | NV               |
| 2,4,6-Cycloheptatrien-1-one, 2-phe | TIC          | 960               | JN              | ug/kg | 960        | JN       | 1.0             | YES        | NV               |
| 4-Methylnaphtho[1,2-b]thiophene    | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| Anthracene, 1,4-dimethyl-          | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 2-methyl-             | TIC          | 1100              | JN              | ug/kg | 1100       | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 1-methyl-             | TIC          | 450               | JN              | ug/kg | 450        | JN       | 1.0             | YES        | NV               |
| Chamazulene                        | TIC          | 350               | JN              | ug/kg | 350        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4,5-dimethyl-        | TIC          | 910               | JN              | ug/kg | 910        | JN       | 1.0             | YES        | NV               |
| Phenol, 4-(2-phenylethenyl)-       | TIC          | 930               | JN              | ug/kg | 930        | JN       | 1.0             | YES        | NV               |
| Acephenanthrylene, 4,5-dihydro-    | TIC          | 1600              | JN              | ug/kg | 1600       | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1-methyl-             | TIC          | 500               | JN              | ug/kg | 500        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                   | TIC          | 520               | JN              | ug/kg | 520        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-            | TIC          | 3200              | JN              | ug/kg | 3200       | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-        | TIC          | 600               | JN              | ug/kg | 600        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                           | % Solids: 86.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 2.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Benzene, 1,3-bis(1,1-dimethylethyl) | TIC          | 3.1               | JN              | ug/kg | 3.1        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-44

pH:

Sample Date: 09/29/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 72.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                    | % Solids: 72.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | J               | ug/kg | 4.7        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 6.6               | J               | ug/kg | 6.6        | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 25                | J               | ug/kg | 25         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 20                | J               | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 11                | J               | ug/kg | 11         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 8.8               | J               | ug/kg | 8.8        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                       | % Solids: 72.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                                 | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                     | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                               | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate             | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                   | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                         | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                   | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                          | TIC          | 9500              | N               | ug/kg | 9500       | N        | 1.0             | YES        | NV               |
| Octadecanoic acid                      | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| Benzene, (1-methylethyl)-              | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                    | TIC          | 540               | JN              | ug/kg | 540        | JN       | 1.0             | YES        | NV               |
| Benzene, propyl-                       | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Tetramethylbutanedinitrile             | TIC          | 95                | JN              | ug/kg | 95         | JN       | 1.0             | YES        | NV               |
| 2-Bromo dodecane                       | TIC          | 1500              | JN              | ug/kg | 1500       | JN       | 1.0             | YES        | NV               |
| (2,3-Diphenylcyclopropyl)methyl<br>ph  | TIC          | 620               | JN              | ug/kg | 620        | JN       | 1.0             | YES        | NV               |
| unknown-01                             | TIC          | 310               | J               | ug/kg | 310        | J        | 1.0             | YES        | NV               |
| Benzene, 1,1-(1,2-cyclobutanediyl      | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| 1-Propene, 3-(2-cyclopentenyl)-2-<br>m | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-           | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| 2-Bromomethyl-2-<br>phenyl[1,3]dioxola | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Phosphoric acid, isodecyl diphenyl     | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| [2.2]Paracyclophane                    | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Fumaric acid, 2-chloropropyl<br>dodec  | TIC          | 450               | JN              | ug/kg | 450        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid, butyl ester         | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Bicyclo[4.2.0]octa-1,3,5-triene        | TIC          | 5300              | JN              | ug/kg | 5300       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                              | % Solids: 72.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.8               |                 | ug/kg | 8.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 5.7               | J               | ug/kg | 5.7        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 87                |                 | ug/kg | 87         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 73                |                 | ug/kg | 73         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 70                |                 | ug/kg | 70         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 63                |                 | ug/kg | 63         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 66                |                 | ug/kg | 66         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP4           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                           | % Solids: 72.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 4.2        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.9               | U               | ug/kg | 3.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP4MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/29/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 72.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 310               | J+              | ug/kg | 310        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 340               | J+              | ug/kg | 340        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP4MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:            |                    | % Solids: 72.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 17                | J-              | ug/kg | 17         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 17                | J-              | ug/kg | 17         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 17                | J-              | ug/kg | 17         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 41                | J-              | ug/kg | 41         | P        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 12                | J-              | ug/kg | 12         | P        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 47                | J-              | ug/kg | 47         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 47                | J-              | ug/kg | 47         | P        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 75                | J-              | ug/kg | 75         | E        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 26                | J-              | ug/kg | 26         | P        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 23                | J-              | ug/kg | 23         | P        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP4MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/29/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 72.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 280               | J+              | ug/kg | 280        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 330               | J+              | ug/kg | 330        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP4MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:             |                    | % Solids: 72.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 17                | J-              | ug/kg | 17         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 17                | J-              | ug/kg | 17         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 17                | J-              | ug/kg | 17         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 40                | J-              | ug/kg | 40         | P        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 12                | J-              | ug/kg | 12         | P        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 46                | J-              | ug/kg | 46         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 46                | J-              | ug/kg | 46         | P        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 74                | J-              | ug/kg | 74         | E        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 26                | J-              | ug/kg | 26         | P        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 23                | J-              | ug/kg | 23         | P        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ6

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AQ1           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:              | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                  | % Solids: 40.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ1           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                    | % Solids: 40.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.2               | R               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.91              | J               | ug/kg | 0.91       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.0               | R               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ1           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                       | % Solids: 40.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 160               | U               | ug/kg | 160        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 630               |                 | ug/kg | 630        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 800               | U               | ug/kg | 800        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid        | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 290               | N               | ug/kg | 290        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ1           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                          | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                              | % Solids: 40.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 73                |                 | ug/kg | 73         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 98                |                 | ug/kg | 98         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 63                |                 | ug/kg | 63         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 120               |                 | ug/kg | 120        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 81                |                 | ug/kg | 81         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 87                |                 | ug/kg | 87         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ1           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                           | % Solids: 40.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 28                | U               | ug/kg | 7.9        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 14                | U               | ug/kg | 4.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 40                | BN              | ug/kg | 40         | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ6

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AQ5           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:              | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                  | % Solids: 12.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:                | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                    | % Solids: 12.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 140               | U               | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                       | % Solids: 12.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | J               | ug/kg | 430        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 3100              |                 | ug/kg | 3100       |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                 | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                    | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate          | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene                 | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                       | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine        | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene           | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Chrysene                     | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate   | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate         | Target       | 2700              | U               | ug/kg | 2700       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene               | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene       | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene       | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene         | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol    | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Ethanol, 2-(2-ethoxyethoxy)- | TIC          | 910               | JN              | ug/kg | 910        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid          | TIC          | 810               | JN              | ug/kg | 810        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                | TIC          | 1100              | N               | ug/kg | 1100       | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                              | % Solids: 12.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 11                | J               | ug/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 18                | J               | ug/kg | 18         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 11                | J               | ug/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 9.3               | J               | ug/kg | 9.3        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 21                | J               | ug/kg | 21         | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 13                | J               | ug/kg | 13         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 9.5               | J               | ug/kg | 9.5        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.9               | J               | ug/kg | 7.9        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.5               | J               | ug/kg | 9.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 16                | J               | ug/kg | 16         | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                           | % Solids: 12.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 110               | U               | ug/kg | 73         | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 56                | U               | ug/kg | 56         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name             | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,3,6-Octatriene, (Z,E)- | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

Sample Number: C0AS2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-42

pH:

Sample Date: 09/28/2020

Sample Time: 13:30:00

% Moisture:

% Solids: 87.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AS2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                | Sample Date: 09/28/2020 | Sample Time: 13:30:00 |
| % Moisture:                    |                    | % Solids: 87.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | J               | ug/kg | 1.9        |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | R               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2.7               | J               | ug/kg | 2.7        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | R               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | R               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.4               | J               | ug/kg | 3.4        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | R               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | R               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | R               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | R               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.4               | R               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | R               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AS2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                   | Sample Date: 09/28/2020 | Sample Time: 13:30:00 |
| % Moisture:                    |                       | % Solids: 87.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 76                | U               | ug/kg | 76         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 640               |                 | ug/kg | 640        |          | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 930               |                 | ug/kg | 930        |          | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 3600              |                 | ug/kg | 3600       | D        | 10.0            | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | R               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 21000             |                 | ug/kg | 21000      | D        | 10.0            | YES        | S4VEM            |
| Anthracene                  | Target       | 5700              |                 | ug/kg | 5700       | D        | 10.0            | YES        | S4VEM            |
| Carbazole                   | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 15000             |                 | ug/kg | 15000      | D        | 10.0            | YES        | S4VEM            |
| Pyrene                             | Target       | 13000             |                 | ug/kg | 13000      | D        | 10.0            | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 7000              |                 | ug/kg | 7000       | D        | 10.0            | YES        | S4VEM            |
| Chrysene                           | Target       | 6400              |                 | ug/kg | 6400       | D        | 10.0            | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 5100              |                 | ug/kg | 5100       | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 4100              |                 | ug/kg | 4100       | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 680               |                 | ug/kg | 680        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene, 2,3,6-trimethyl-      | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 2400              | JN              | ug/kg | 2400       | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 2-methyl-             | TIC          | 1800              | JN              | ug/kg | 1800       | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1-methyl-             | TIC          | 850               | JN              | ug/kg | 850        | JN       | 1.0             | YES        | NV               |
| Benzeneethanol, .alpha.,.alpha.,b  | TIC          | 510               | JN              | ug/kg | 510        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,2,3,4-tetramethyl-  | TIC          | 520               | JN              | ug/kg | 520        | JN       | 1.0             | YES        | NV               |
| Pentamethylmelamine                | TIC          | 410               | JN              | ug/kg | 410        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-ol                    | TIC          | 1500              | JN              | ug/kg | 1500       | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 1-methyl-             | TIC          | 850               | JN              | ug/kg | 850        | JN       | 1.0             | YES        | NV               |
| Dibenzofuran, 4-methyl-            | TIC          | 770               | JN              | ug/kg | 770        | JN       | 1.0             | YES        | NV               |
| Naphtho[2,1-b]thiophene            | TIC          | 1500              | JN              | ug/kg | 1500       | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,3-dimethyl-         | TIC          | 690               | JN              | ug/kg | 690        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,4,5-trimethyl-      | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4,5-dimethyl-        | TIC          | 1300              | JN              | ug/kg | 1300       | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 2100              | JN              | ug/kg | 2100       | JN       | 1.0             | YES        | NV               |
| 3-(2-Naphthyl)acrylaldehyde        | TIC          | 510               | JN              | ug/kg | 510        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1,7-dimethyl-        | TIC          | 1000              | JN              | ug/kg | 1000       | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                   | TIC          | 660               | JN              | ug/kg | 660        | JN       | 1.0             | YES        | NV               |
| 1,1-Biphenyl, 2-methyl-            | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 3,6-dimethyl-        | TIC          | 790               | JN              | ug/kg | 790        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,6,7-trimethyl-      | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 590               | J               | ug/kg | 590        | J        | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-            | TIC          | 4500              | JN              | ug/kg | 4500       | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene, 3-methyl-        | TIC          | 960               | JN              | ug/kg | 960        | JN       | 1.0             | YES        | NV               |
| 4-Methylnaphtho[1,2-b]thiophene    | TIC          | 580               | JN              | ug/kg | 580        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 1200              | J               | ug/kg | 1200       | J        | 1.0             | YES        | NV               |
| Benzaldehyde, 3,5-dichloro-2-hydro | TIC          | 7200              | JN              | ug/kg | 7200       | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 800               | JN              | ug/kg | 800        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,5-dimethyl-         | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 13:30:00 |
| % Moisture:                    |                           | % Solids: 87.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 2.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK00 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS00 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.7               |                 | ug/kg | 3.7        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.9               |                 | ug/kg | 3.9        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK46 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK47 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK22 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK23 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK24 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK26 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 1.9               | J               | ug/kg | 1.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ6

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 11/16/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# C0AJ9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020044





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 12, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49088 COAJ9

### Overview

This data package consisted of twenty (20) soil samples analyzed for low volatiles, semi-volatiles, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), pesticides, and Aroclors.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 21, 2020.

Trip blanks COAS6 and COAS7 (from SDG COAR2) are associated with samples in this SDG and used in the evaluation of this data.

### Summary

Significant Deuterated Monitoring Compound (DMC) recovery and dual column precision outliers were identified that resulted in rejection of sample results. Less significant data quality outliers requiring estimation of sample results were identified including, but not limited to, surrogate recovery and calibration.

### Major Problems

The percent recovery for semivolatile DMC 4,6-dinitro-2-methylphenol-d2 was < 10% for sample COAK8. The associated analyte 4,6-dinitro-2-methylphenol was not detected in the sample. Quantitation limit is unusable and has been qualified "R".

The following analytes had Percent Difference (%D) > 200% between the dual column analyses. The large %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed below have been rejected and qualified "R".

| Fraction  | Affected Samples | Affected Analytes                              |
|-----------|------------------|--|
| Pesticide | COAL1            | Heptachlor Epoxide, Endrin                     |
|           | COAL3            | Dieldrin                                       |
|           | COAL4            | Heptachlor Epoxide, Dieldrin, Endrin, 4,4'-DDT |
|           | COAL9            | Heptachlor Epoxide                             |
|           | COAP3            | 4,4'-DDE                                       |
|           | COAS4            | trans-Chlordane                                |

### Minor Problem

Percent recoveries for pesticide surrogate tetrachloro-m-xylene were outside the lower control limit for samples COAK8 and COAP3. Detected results >CRQL for pesticides in these samples are estimated and have been qualified "J-". Quantitation limits are estimated and have been qualified "UJ".

The semivolatile analyte 2,4-dinitophenol failed Percent Difference (%D) criteria in the CCV VSTD02033. The analyte was not detected in the associated samples. Quantitation limits are estimated and have been qualified "UJ".

The following analytes exceeded calibration range in the diluted analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COAK8  | 5x | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COAL4  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Benzo(b)fluoranthene   |
|          | COAL8  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene   |
|          | COAP3  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                                   |

### Notes

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are

estimated and have been qualified "J".

For the volatile fraction, method blanks VBLK23 and VBLK24 and storage blank VHBLK01 reported detected concentrations of acetone and methylene chloride less than the CRQL; method blank VBLK25 reported detected concentration of methylene chloride less than the CRQL; trip blanks COAS6 and COAS7 reported detected concentrations of acetone less than the CRQL. Detected concentrations of these analytes less than the CRQL in the associated samples have been reported at CRQL and qualified "U".

Method blanks were free from contamination for other fractions.

Pesticide and Aroclor results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

The percent solids for sample COAQ6 was > 10% but < 30.0%. No data were qualified based on this finding.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits except for recoveries of Aroclor-1016 and Aroclor-1260. No data were qualified based on MS/MSD accuracy and precision.

Percent recoveries for the following DMCs/surrogates were outside the upper control limit for samples listed below. The associated analytes were not detected in the samples. Quantitation limits are not qualified.

| Fraction     | DMC/Surrogate          | Affected Samples                  |
|--------------|------------------------|-----------------------------------|
| Volatile     | 1,2-Dichloropropane-d6 | COAP3                             |
| Semivolatile | 2-Nitrophenol-d4       | COAJ8, COAM8                      |
|              | Acenaphthylene-d8      | COAJ8, COAM8                      |
|              | Pyrene-d10             | COAJ8, COAM8                      |
| Aroclor      | Tetrachloro-m-xylene   | COAK3, COAK8, COAM3, COAM8, COAS3 |

Percent recoveries for surrogates tetrachloro-m-xylene and decachlorobiphenyl were outside the control limits for diluted samples COAL8 and COAP3. Recoveries for surrogates are not used to qualify diluted samples.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.



| Fraction      | Sample       | DF   | Analyte  |
|---------------|--------------|------|--|
| Semivolatiles | COAP3        | 2x   | Pyrene   |
| PAH           | COAK3        | 10x  | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene                                 |
|               | COAK8        | 5x   | Acenaphthylene, Acenaphthene, Fluorene, Dibenzo(a,h)anthracene   |
|               | COAL1, COAL9 | 10x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|               | COAL3        | 5x   | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|               | COAL4        | 5x   | Anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|               | COAL8        | 5x   | Acenaphthene, Fluorene, Anthracene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|               | COAP3        | 5x   | Acenaphthene, Fluorene, Anthracene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene   |
|               | COAS4        | 5x   | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene   |
| Pesticide     | COAL9        | 5x   | 4,4'-DDT, cis-Chlordane, trans-Chlordane   |
|               | COAP3        | 10x  | 4,4'-DDD, cis-Chlordane, trans-Chlordane   |
| Aroclor       | COAL8        | 200x | Aroclor-1260   |
|               | COAP3        | 20x  | Aroclor-1260   |

The originally shipped COCs listed the collection method as composite instead of grab for all soil samples.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COAP3. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

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 Glossary of Organic Data Qualifier Codes
 

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 Validation  
 Qualifiers
 

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In order of descending precedence. Only one of these qualifiers may apply to any result.

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|    |   |
|----|---|
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                          |
| U  | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.   |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |

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 Additional  
 Qualifiers
 

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Additional qualifiers may be combined with other qualifiers.

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|   |   |
|---|---|
| N | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: ABLK21

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: ALCS21

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 28                | JP              | ug/kg | 28         | JP       | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 29                | JP              | ug/kg | 29         | JP       | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AJ8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-23

pH:

Sample Date: 09/30/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 80.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AJ8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-23 | pH:                | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                    | % Solids: 80.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AJ8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-23 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                       | % Solids: 80.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| n-Tetracosanol-1           | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 130               | N               | ug/kg | 130        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-23 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                              | % Solids: 80.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.86              | J               | ug/kg | 0.86       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 8.8               |                 | ug/kg | 8.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 6.3               |                 | ug/kg | 6.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ8           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-23 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                           | % Solids: 80.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 7.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.3               | U               | ug/kg | 2.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| (-)-Aristolene                        | TIC          | 12                | JN              | ug/kg | 12         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Bicyclo[3.1.1]hept-2-ene, 2,6-dime | TIC          | 2.7               | JN              | ug/kg | 2.7        | JN       | 1.0             | YES        | NV               |
| 4,7-Methanoazulene, 1,2,3,4,5,6,7, | TIC          | 5.0               | JN              | ug/kg | 5.0        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,2,3,4,4a,5,6,8a-oct | TIC          | 28                | JN              | ug/kg | 28         | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[a]naphthalene, 1a,2, | TIC          | 21                | JN              | ug/kg | 21         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AJ9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-24

pH:

Sample Date: 09/29/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 85.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AJ9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-24 | pH:                | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                    | % Solids: 85.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AJ9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-24 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                       | % Solids: 85.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 400               |                 | ug/kg | 400        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nonahexacontanoic acid         | TIC          | 86                | JN              | ug/kg | 86         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          | 360               | N               | ug/kg | 360        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid            | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |
| Heptadecyl heptafluorobutyrate | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-24 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                              | % Solids: 85.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.93              | J               | ug/kg | 0.93       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 4.8               | J               | ug/kg | 4.8        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.3               |                 | ug/kg | 4.3        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 6.4               |                 | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.2               |                 | ug/kg | 4.2        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AJ9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-24 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                           | % Solids: 85.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 3.5        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 3.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| .alpha.-Pinene                        | TIC          | 41                | JN              | ug/kg | 41         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AK3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-28

pH:

Sample Date: 09/30/2020

Sample Time: 09:30:00

% Moisture:

% Solids: 89.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                    | % Solids: 89.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.44              | J               | ug/kg | 0.44       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.22              | J               | ug/kg | 0.22       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                       | % Solids: 89.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 39                | J               | ug/kg | 39         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | UJ              | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 400               |                 | ug/kg | 400        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid            | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 77                | JN              | ug/kg | 77         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                              | % Solids: 89.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 330               |                 | ug/kg | 330        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 110               |                 | ug/kg | 110        | D        | 10.0            | YES        | S4VEM            |
| Fluoranthene           | Target       | 370               |                 | ug/kg | 370        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 300               |                 | ug/kg | 300        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 200               |                 | ug/kg | 200        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 140               |                 | ug/kg | 140        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 180               |                 | ug/kg | 180        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 130               |                 | ug/kg | 130        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 61                |                 | ug/kg | 61         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                           | % Solids: 89.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               | U               | ug/kg | 3.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AK8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-33

pH:

Sample Date: 09/30/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 89.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                    | % Solids: 89.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | UJ              | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.60              | J               | ug/kg | 0.60       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | UJ              | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | UJ              | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.54              | J               | ug/kg | 0.54       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | UJ              | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | UJ              | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | UJ              | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | UJ              | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | UJ              | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                       | % Solids: 89.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 74                | U               | ug/kg | 74         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | UJ              | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | R               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 3000              |                 | ug/kg | 3000       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 2900              |                 | ug/kg | 2900       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 2100              |                 | ug/kg | 2100       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 690               |                 | ug/kg | 690        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 910               |                 | ug/kg | 910        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 860               |                 | ug/kg | 860        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                          | TIC          | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | NV               |
| 8-Dimethylaminonaphthalene-1-carbo  | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| Methacrylamide                      | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene                    | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Benzo[ghi]fluoranthene              | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 3,6-dimethyl-         | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro-  | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 3H-Benz[e]indene, 2-methyl-         | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-02                          | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione                | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                   | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| 9H-Xanthene                         | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopenta[l]phenanthrene, 2,3-  | TIC          | 76                | JN              | ug/kg | 76         | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-             | TIC          | 490               | JN              | ug/kg | 490        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                 | TIC          | 79                | JN              | ug/kg | 79         | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-         | TIC          | 89                | JN              | ug/kg | 89         | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene     | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene, 3-methyl-         | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-              | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[l]phenanthrene, 1a,9b | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Benzenamine, 3-[2-(4-pyridinyl)eth  | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one          | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-methyl-               | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| [1,1-Biphenyl]-4-carboxaldehyde     | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone       | TIC          | 350               | JN              | ug/kg | 350        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene      | TIC          | 640               | JN              | ug/kg | 640        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene                | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                    | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Anthracene, 1-methyl-               | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| Phenol, 4-(2-phenylethenyl)-        | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                              | % Solids: 89.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 76                |                 | ug/kg | 76         | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3000              | J               | ug/kg | 3000       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 2800              | J               | ug/kg | 2800       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1900              | J               | ug/kg | 1900       | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1700              | J               | ug/kg | 1700       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 520               | J               | ug/kg | 520        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 730               | J               | ug/kg | 730        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 620               | J               | ug/kg | 620        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK8           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                           | % Solids: 89.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/kg | 2.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| o-Cymene     | TIC          | 9.3               | JN              | ug/kg | 9.3        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AK9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-34

pH:

Sample Date: 09/29/2020

Sample Time: 08:55:00

% Moisture:

% Solids: 88.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                    | % Solids: 88.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                       | % Solids: 88.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 38                | J               | ug/kg | 38         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene, 1,2,4a,5,8,8a-hexahyd | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Cedrene                            | TIC          | 77                | JN              | ug/kg | 77         | JN       | 1.0             | YES        | NV               |
| 1,6-Cyclodecadiene, 1-methyl-5-met | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | NV               |
| 1H-Indole, 2-(1,3-benzodioxol-5-yl | TIC          | 97                | JN              | ug/kg | 97         | JN       | 1.0             | YES        | NV               |
| trans-Cinnamic acid                | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| .alpha.-Cubebene                   | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| 4-isopropyl-1,6-dimethyl-1,2,3,4-t | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Vinyl trans-cinnamate              | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Pentafluoropropionic acid, pentade | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 1000              | N               | ug/kg | 1000       | N        | 1.0             | YES        | NV               |
| unknown-04                         | TIC          | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | NV               |
| .alpha.-Pinene                     | TIC          | 510               | JN              | ug/kg | 510        | JN       | 1.0             | YES        | NV               |
| 2-Propen-1-ol, 3-phenyl-           | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 3000              | J               | ug/kg | 3000       | J        | 1.0             | YES        | NV               |
| Bicyclo[5.2.0]nonane, 2-methylene- | TIC          | 490               | JN              | ug/kg | 490        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,2,4a,5,6,8a-hexahyd | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| 1-Heneicosanol                     | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                              | % Solids: 88.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.77              | J               | ug/kg | 0.77       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.75              | J               | ug/kg | 0.75       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.7               |                 | ug/kg | 3.7        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.9               |                 | ug/kg | 4.9        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.9               |                 | ug/kg | 4.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                           | % Solids: 88.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 4.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.6               | U               | ug/kg | 4.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.71              | J               | ug/kg | 0.71       | J        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.99              | J               | ug/kg | 0.99       | J        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| .alpha.-Pinene                        | TIC          | 68                | JN              | ug/kg | 68         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AL1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-36

pH:

Sample Date: 09/30/2020

Sample Time: 11:00:00

% Moisture:

% Solids: 83.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 96                | J               | ug/kg | 96         | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL1           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:                | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                    | % Solids: 83.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.42              | R               | ug/kg | 0.42       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 8.5               |                 | ug/kg | 8.5        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.77              | R               | ug/kg | 0.77       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 7.9               | J               | ug/kg | 7.9        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.9               | J               | ug/kg | 4.9        | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 6.3               | J               | ug/kg | 6.3        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 6.4               | J               | ug/kg | 6.4        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL1           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                       | % Solids: 83.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 310               | J               | ug/kg | 310        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 630               |                 | ug/kg | 630        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Octadecanoic acid          | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL1           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                              | % Solids: 83.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 160               |                 | ug/kg | 160        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 270               |                 | ug/kg | 270        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 240               |                 | ug/kg | 240        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 160               |                 | ug/kg | 160        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 130               |                 | ug/kg | 130        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 56                |                 | ug/kg | 56         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 130               |                 | ug/kg | 130        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 72                |                 | ug/kg | 72         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 70                |                 | ug/kg | 70         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL1           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                           | % Solids: 83.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.4               | U               | ug/kg | 6.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 5.0               | BN              | ug/kg | 5.0        | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Sulfurous acid, 2-ethylhexyl hexyl | TIC          | 8.2               | JN              | ug/kg | 8.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AL3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-38

pH:

Sample Date: 09/29/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 83.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-38 | pH:                | Sample Date: 09/29/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                    | % Solids: 83.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.47              | R               | ug/kg | 0.47       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.79              | J               | ug/kg | 0.79       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-38 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                       | % Solids: 83.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 170               | N               | ug/kg | 170        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-38 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                              | % Solids: 83.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 9.0               |                 | ug/kg | 9.0        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 78                |                 | ug/kg | 78         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 79                |                 | ug/kg | 79         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-38 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                           | % Solids: 83.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 3.5        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.4               | U               | ug/kg | 3.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ9

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AL4           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:              | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                  | % Solids: 86.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 81                | J               | ug/kg | 81         | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                    | % Solids: 86.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.79              | R               | ug/kg | 0.79       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2.7               | R               | ug/kg | 2.7        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 12                | J               | ug/kg | 12         | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 2.4               | R               | ug/kg | 2.4        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 39                | J               | ug/kg | 39         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 5.4               | R               | ug/kg | 5.4        | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 9.4               |                 | ug/kg | 9.4        |          | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 10                | J               | ug/kg | 10         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                       | % Solids: 86.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 77                | U               | ug/kg | 77         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 40                | J               | ug/kg | 40         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 41                | J               | ug/kg | 41         | J        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | UJ              | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2H-Pyran, tetrahydro-2-methyl- | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid            | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                              | % Solids: 86.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 370               | J               | ug/kg | 370        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 560               | J               | ug/kg | 560        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 480               | J               | ug/kg | 480        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 340               | J               | ug/kg | 340        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 410               | J               | ug/kg | 410        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL4           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                           | % Solids: 86.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 2.1        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ9

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AL8           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:              | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                  | % Solids: 77.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 63000             |                 | ug/kg | 63000      | D        | 200.0           | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                    | % Solids: 77.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                       | % Solids: 77.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | UJ              | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 760               |                 | ug/kg | 760        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 720               |                 | ug/kg | 720        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 820               |                 | ug/kg | 820        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 620               |                 | ug/kg | 620        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexadecanoic acid, 1,1-dimethyleth | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 1,1-Biphenyl, 2,2,3,3,4,5-hexac    | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| 2,2,3,4,4,6-Hexachloro-1,1-bip     | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid, 2-methylpropyl  | TIC          | 530               | JN              | ug/kg | 530        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 480               | J               | ug/kg | 480        | J        | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |
| 2,3,3,4,5,5-Hexachloro-1,1-bip     | TIC          | 460               | JN              | ug/kg | 460        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid                  | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| 2,3,3,4,5,5-Hexachloro-1,1-biph    | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Benzenesulfonic acid, 2-methyl-, e | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| 1,1-Biphenyl, 2,2,4,4,6-Pentach    | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| 1,1-Biphenyl, 2,2,4,6,6-Pentach    | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 510               | JN              | ug/kg | 510        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                   | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                              | % Solids: 77.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 95                |                 | ug/kg | 95         | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | J               | ug/kg | 8.5        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1700              | J               | ug/kg | 1700       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1400              | J               | ug/kg | 1400       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 970               | J               | ug/kg | 970        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 730               | J               | ug/kg | 730        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 330               |                 | ug/kg | 330        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 670               | J               | ug/kg | 670        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 370               | J               | ug/kg | 370        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 320               |                 | ug/kg | 320        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL8           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                           | % Solids: 77.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 6.7        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.0               | U               | ug/kg | 4.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ9

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AL9           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:              | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                  | % Solids: 79.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 260               | J               | ug/kg | 260        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                    | % Solids: 79.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.5               | R               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 11                | J               | ug/kg | 11         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 20                | J               | ug/kg | 20         | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 8.1               | J               | ug/kg | 8.1        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 37                | J               | ug/kg | 37         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 54                | J               | ug/kg | 54         | DP       | 5.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 50                | J               | ug/kg | 50         | DP       | 5.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                       | % Solids: 79.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | UJ              | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 350               | J               | ug/kg | 350        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 44                | J               | ug/kg | 44         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 16000             | N               | ug/kg | 16000      | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 710               | JN              | ug/kg | 710        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 95                | JN              | ug/kg | 95         | JN       | 1.0             | YES        | NV               |
| Benzeneacetonitrile, .alpha.-hydro | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| 1-Propene, 3-(2-cyclopentenyl)-2-m | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid                  | TIC          | 810               | JN              | ug/kg | 810        | JN       | 1.0             | YES        | NV               |
| Phosphoric acid, isodecyl diphenyl | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                              | % Solids: 79.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.9               |                 | ug/kg | 9.9        |          | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 230               |                 | ug/kg | 230        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 370               |                 | ug/kg | 370        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 340               |                 | ug/kg | 340        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 210               |                 | ug/kg | 210        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 180               |                 | ug/kg | 180        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 270               |                 | ug/kg | 270        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 85                |                 | ug/kg | 85         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 100               |                 | ug/kg | 100        | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                           | % Solids: 79.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 3.6        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 2.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AM3           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:              | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                  | % Solids: 95.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 34                | U               | ug/kg | 34         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                    | % Solids: 95.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                       | % Solids: 95.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 70                | U               | ug/kg | 70         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 38                | J               | ug/kg | 38         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 380               | N               | ug/kg | 380        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| unknown-03                 | TIC          | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | NV               |
| unknown-02                 | TIC          | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                              | % Solids: 95.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.4               | U               | ug/kg | 3.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 95.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.4               | U               | ug/kg | 3.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AM4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-24

pH:

Sample Date: 09/29/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 80.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                    | % Solids: 80.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                       | % Solids: 80.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 430               | N               | ug/kg | 430        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                              | % Solids: 80.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM4           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                           | % Solids: 80.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 4.6        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.4               | U               | ug/kg | 3.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene, 1,2,4a,5,6,8a-hexahyd | TIC          | 8.1               | JN              | ug/kg | 8.1        | JN       | 1.0             | YES        | NV               |
| Humulene                           | TIC          | 9.5               | JN              | ug/kg | 9.5        | JN       | 1.0             | YES        | NV               |
| Caryophyllene                      | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,2,3,5,6,8a-hexahydr | TIC          | 15                | JN              | ug/kg | 15         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AM8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-28

pH:

Sample Date: 09/30/2020

Sample Time: 09:40:00

% Moisture:

% Solids: 93.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-28 | pH:                | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:                    |                    | % Solids: 93.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-28 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:                    |                       | % Solids: 93.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 72                | U               | ug/kg | 72         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 250               | N               | ug/kg | 250        | N        | 1.0             | YES        | NV               |
| Myristin, 1,3-diaceto-2-   | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| unknown-03                 | TIC          | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Myristin, 2,3-diaceto-1-   | TIC          | 75                | JN              | ug/kg | 75         | JN       | 1.0             | YES        | NV               |
| 9-Octadecenamide, (Z)-     | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| unknown-02                 | TIC          | 340               | J               | ug/kg | 340        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-28 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:                    |                              | % Solids: 93.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM8           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-28 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:                    |                           | % Solids: 93.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.0               | U               | ug/kg | 2.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AM8MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/30/2020

Sample Time: 09:40:00

% Moisture:

% Solids: 93.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 170               |                 | ug/kg | 170        | P        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 180               |                 | ug/kg | 180        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 35                | U               | ug/kg | 35         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM8MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:            |                    | % Solids: 93.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AM8MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/30/2020

Sample Time: 09:40:00

% Moisture:

% Solids: 93.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               |                 | ug/kg | 190        | P        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM8MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:             |                    | % Solids: 93.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.5               | U               | ug/kg | 3.5        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AN4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-34

pH:

Sample Date: 09/29/2020

Sample Time: 09:00:00

% Moisture:

% Solids: 84.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                    | % Solids: 84.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                       | % Solids: 84.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Cinnamyl cinnamate         | TIC          | 550               | JN              | ug/kg | 550        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 380               | N               | ug/kg | 380        | N        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | NV               |
| 9-Octadecenamide, (Z)-     | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                              | % Solids: 84.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN4           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                           | % Solids: 84.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.7               | U               | ug/kg | 4.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 4.9               | U               | ug/kg | 3.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.7               | U               | ug/kg | 9.7        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.7               | U               | ug/kg | 9.7        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.7               | U               | ug/kg | 9.7        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AN8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-38

pH:

Sample Date: 09/29/2020

Sample Time: 14:05:00

% Moisture:

% Solids: 91.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                    | % Solids: 91.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                       | % Solids: 91.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 73                | U               | ug/kg | 73         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pyrene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Chrysene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate                          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                                      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol                           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Ethanol, 2-(2-ethoxyethoxy)-<br>n-Hexadecanoic acid | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-<br>4,7-di              | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                                       | TIC          | 340               | N               | ug/kg | 340        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                              | % Solids: 91.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN8           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                           | % Solids: 91.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 3.6        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 2.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AN9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-39

pH:

Sample Date: 09/29/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 85.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                    | % Solids: 85.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                       | % Solids: 85.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 210               | N               | ug/kg | 210        | N        | 1.0             | YES        | NV               |
| Sulfurous acid, butyl tridecyl est | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Trichloroacetic acid, hexadecyl es | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Diethyltoluamide                   | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                              | % Solids: 85.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.8               | U               | ug/kg | 7.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                           | % Solids: 85.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 6.0        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.4               | U               | ug/kg | 4.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AP3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-43

pH:

Sample Date: 09/29/2020

Sample Time: 11:00:00

% Moisture:

% Solids: 56.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 10000             | J               | ug/kg | 10000      | DP       | 20.0            | YES        | S4VEM            |
| Aroclor-1262 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 58                | U               | ug/kg | 58         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-43 | pH:                | Sample Date: 09/29/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                    | % Solids: 56.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 3.0               | UJ              | ug/kg | 3.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 77                | J               | ug/kg | 77         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 36                | R               | ug/kg | 36         | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 82                | J               | ug/kg | 82         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 5.8               | UJ              | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 220               | J               | ug/kg | 220        | DP       | 10.0            | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 5.8               | UJ              | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 5.8               | UJ              | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 30                | UJ              | ug/kg | 30         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.8               | UJ              | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.8               | UJ              | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 140               | J-              | ug/kg | 140        | D        | 10.0            | YES        | S4VEM            |
| trans-Chlordane     | Target       | 120               | J               | ug/kg | 120        | DP       | 10.0            | YES        | S4VEM            |
| Toxaphene           | Target       | 300               | UJ              | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-43 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                       | % Solids: 56.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 120               | U               | ug/kg | 120        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 3400              |                 | ug/kg | 3400       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 3900              |                 | ug/kg | 3900       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 7000              |                 | ug/kg | 7000       | D        | 2.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 580               | U               | ug/kg | 580        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 960               |                 | ug/kg | 960        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 300               | U               | ug/kg | 300        | U        | 1.0             | YES        | S4VEM            |
| Anthracene, 1,2,3,4-tetrahydro-    | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro- | TIC          | 500               | JN              | ug/kg | 500        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one         | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 910               | JN              | ug/kg | 910        | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-            | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,3-dimethyl-        | TIC          | 520               | JN              | ug/kg | 520        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 3-methylbutyl undec | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 1400              | JN              | ug/kg | 1400       | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene                   | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4-methyl-            | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| 1,2-Benzenedicarboxylic acid, bis( | TIC          | 1100              | JN              | ug/kg | 1100       | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                   | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Tetrachloro-o-benzoquinone         | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene, 4-methyl-        | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 1,2-Benzenedicarboxylic acid, dino | TIC          | 12000             | JN              | ug/kg | 12000      | JN       | 1.0             | YES        | NV               |
| Pyrene, 2-methyl-                  | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-ethyl-               | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-             | TIC          | 380               | JN              | ug/kg | 380        | JN       | 1.0             | YES        | NV               |
| Benzo[ghi]fluoranthene             | TIC          | 440               | JN              | ug/kg | 440        | JN       | 1.0             | YES        | NV               |
| Octadecanoic acid                  | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Phthalic acid, 2-methylallyl octyl | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Benzo[c]cinnoline                  | TIC          | 600               | JN              | ug/kg | 600        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 410               | JN              | ug/kg | 410        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 290               | J               | ug/kg | 290        | J        | 1.0             | YES        | NV               |
| Benzo[e]pyrene                     | TIC          | 970               | JN              | ug/kg | 970        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-43 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                              | % Solids: 56.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 410               |                 | ug/kg | 410        | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3200              | J               | ug/kg | 3200       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3900              | J               | ug/kg | 3900       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 6200              | J               | ug/kg | 6200       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 390               |                 | ug/kg | 390        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 790               | J               | ug/kg | 790        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-43 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                           | % Solids: 56.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 20                | U               | ug/kg | 6.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 10                | U               | ug/kg | 3.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-23

pH:

Sample Date: 09/29/2020

Sample Time: 14:40:00

% Moisture:

% Solids: 16.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                    | % Solids: 16.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 100               | U               | ug/kg | 100        | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.0               | J               | ug/kg | 5.0        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                   | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                       | % Solids: 16.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 360               | J               | ug/kg | 360        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 2000              | U               | ug/kg | 2000       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 1000              | U               | ug/kg | 1000       | U        | 1.0             | YES        | S4VEM            |
| Trichloroacetic acid, hexadecyl<br>es | TIC          | 790               | JN              | ug/kg | 790        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                   | TIC          | 480               | JN              | ug/kg | 480        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                          | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                              | % Solids: 16.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 12                | J               | ug/kg | 12         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 12                | J               | ug/kg | 12         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 6.8               | J               | ug/kg | 6.8        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 7.4               | J               | ug/kg | 7.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 11                | J               | ug/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.8               | J               | ug/kg | 4.8        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 6.2               | J               | ug/kg | 6.2        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.8               | J               | ug/kg | 4.8        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                           | % Solids: 16.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 75                | U               | ug/kg | 37         | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| .alpha.-Pinene                        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Bicyclo[3.1.0]hex-2-ene, 4-methyl- | TIC          | 26                | JN              | ug/kg | 26         | JN       | 1.0             | YES        | NV               |
| D-Limonene                         | TIC          | 73                | JN              | ug/kg | 73         | JN       | 1.0             | YES        | NV               |
| trans-.beta.-Ocimene               | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| .beta.-Pinene                      | TIC          | 30                | JN              | ug/kg | 30         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AJ9

**Lab Name:** Chemtech Consulting Group

|                                 |                  |                         |                       |
|---------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AS3            | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:              | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                  | % Solids: 83.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                    |                         |                       |
|---------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AS3            | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                    | % Solids: 83.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                       |                         |                       |
|---------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AS3            | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                   | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                       | % Solids: 83.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid        | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 1-Heneicosanol             | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                              |                         |                       |
|---------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AS3            | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                          | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                              | % Solids: 83.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.91              | J               | ug/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                           |                         |                       |
|---------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS3            | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                       | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                           | % Solids: 83.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.9               | U               | ug/kg | 3.8        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 4.9               | U               | ug/kg | 3.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AS4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-39A

pH:

Sample Date: 09/29/2020

Sample Time: 11:45:00

% Moisture:

% Solids: 92.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                    |                         |                       |
|---------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AS4            | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:                | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                    | % Solids: 92.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.90              | J               | ug/kg | 0.90       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.43              | J               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.6               | J               | ug/kg | 3.6        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.3               | R               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                       |                         |                       |
|---------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AS4            | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:                   | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                       | % Solids: 92.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 72                | U               | ug/kg | 72         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 360               | UJ              | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Guanidine, monothiocyanate     | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid            | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| 2H-Pyran, tetrahydro-2-methyl- | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                              |                         |                       |
|---------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AS4            | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:                          | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                              | % Solids: 92.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               |                 | ug/kg | 3.9        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 66                |                 | ug/kg | 66         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 67                |                 | ug/kg | 67         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 74                |                 | ug/kg | 74         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 79                |                 | ug/kg | 79         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                                 |                           |                         |                       |
|---------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS4            | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:                       | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                           | % Solids: 92.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.2               | U               | ug/kg | 4.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene, decahydro-4a-            | TIC          | 61                | JN              | ug/kg | 61         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name                           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| methyl-1                               |              |                   |                 |       |            |          |                 |            |                  |
| (-)-Aristolene                         | TIC          | 23                | JN              | ug/kg | 23         | JN       | 1.0             | YES        | NV               |
| 1H-Cycloprop[e]azulene,<br>1a,2,3,5,6  | TIC          | 9.6               | JN              | ug/kg | 9.6        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Bicyclo[3.1.1]hept-2-ene, 2,6-<br>dime | TIC          | 7.5               | JN              | ug/kg | 7.5        | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[a]naphthalene,<br>1a,2,  | TIC          | 41                | JN              | ug/kg | 41         | JN       | 1.0             | YES        | NV               |
| unknown-01                             | TIC          | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK73 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS73 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK50 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | UJ              | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK51 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK23 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK24 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK25 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK26 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 3.9               | J               | ug/kg | 3.9        | JB       | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 1.6               | J               | ug/kg | 1.6        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AJ9

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 11/18/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# C0AL0 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc: Nancy Shannon  
Tara Lambert

TO: #0002 TDF: #1020053





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 17, 2020

**To:** ESAT Region 3 Project Officer

**From:** Mahboobeh Mecanic  
Validator

Dean Gouveia  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49088 COALO

### **Overview**

This data package consisted of one (1) trip blank analyzed for volatile analytes, six (6) sediment samples including a field duplicate pair and twelve (12) soil samples including a field duplicate pair analyzed for volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 27, 2020.

### **Summary**

Significant data quality outliers regarding Deuterated Monitoring Compounds (DMC) in semivolatile fraction and dual column precision in pesticide and Aroclor fractions required rejection of results. Less significant data quality outliers were identified that resulted in estimation of sample results, including but not limited to, internal standards in volatile fraction and surrogates in pesticide and Aroclor fractions.

**Major Problems**

Recoveries for the following DMCs were <10% in the semivolatile sample listed. No positive results were reported for analytes associated with these DMCs. Quantitation limits for analytes associated with these DMCs have been rejected and qualified "R".

| Fraction     | DMC  | Affected Sample(s) |
|--------------|--|--------------------|
| Semivolatile | 4-Nitrophenol-d <sub>4</sub> , 4,6-Dinitro-2-methylphenol-d <sub>2</sub> | COAQ3              |

The following analytes reported percent difference (%D) >200% in pesticide or Aroclor dual column analyses for samples listed. The significant %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed have been rejected and qualified "R".

| Fraction  | Affected Analyte(s)                           | Affected Sample(s) |
|-----------|---|--------------------|
| Pesticide | trans-Chlordane, Heptachlor epoxide, Dieldrin | COAK4              |
|           | Heptachlor epoxide, Dieldrin                  | COAK5              |
|           | Gamma-BHC, trans-Chlordane, Dieldrin 4,4'-DDD | COAK7              |
|           | Dieldrin                                      | COAL0              |
|           | Trans-Chlordane, Dieldrin                     | COAQ0, COAQ2       |
|           | cis-Chlordane, Endosulfan II                  | COAS9              |
| Aroclor   | Ar1260  | COAN6              |

**Minor Problems**

The area counts for the following internal standard were <50% but >20% of the area count in the associated calibration standards for samples listed. These samples were reanalyzed with similar results. The reanalysis results are reported. No positive results were reported for analytes associated with this internal standard in these samples. Quantitation limits for analytes associated with this internal standard have been qualified "UJ".

| Fraction | Internal Standard                  | Affected Samples    |
|----------|------------------------------------|---------------------|
| Volatile | 1,4-Dichlorobenzene-d <sub>4</sub> | COAK4, COAQ2, COAQ3 |

Recovery for surrogate Decachlorobiphenyl (DCB) was outside the upper control limit on one analytical column in pesticide sample COAS9. Positive results in this sample have been qualified "J".

Recoveries for surrogate Tetrachloro-m-xylene (TCX) were outside the lower control limit on both analytical columns in pesticide sample COAQ3 and Aroclor sample COAQ2. Positive results in these samples have been qualified "J" and quantitation limits have been qualified "UJ".

The following analytes exceeded the calibration range in the diluted analysis of sample listed. Reported results for these analytes in this sample have been qualified "J".

| Fraction | Affected Analytes  | Affected Sample |
|----------|--|-----------------|
| PAH SIM  | Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene | COAS9           |

### Notes

Detected concentrations for target analytes less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J".

Pesticide and Aroclor results with %D >25% but <200% between the two analytical columns have been qualified "J".

Laboratory blanks were free of contamination in all fractions except Volatiles. Volatile contaminants included methylene chloride <CRQL in volatile blanks VBLK25, VBLK27, VBLK28 and VHBLK01, acetone and methylene chloride <CRQL in volatile blank VBLK26, tetrachloroethene <CRQL in VBLK71 and trichloroethene and tetrachloroethene <CRQL in volatile blank VHBLK02. Positive results for these analytes <CRQL in samples associated with these blanks have been raised to the CRQL and qualified "U".

The trip blank COAT6 collected 10/5/20 associated with sediment samples reported concentration for acetone >CRQL and concentration for cis-1,2-dichloroethene <CRQL. These analytes were either not detected in the sediment samples or reported acetone >CRQL and >2X the blank. No data were qualified based on this trip blank.

Trip blanks COAS7 and COAT2 and rinsate blank COAS1 collected 9/30/20 and 10/1/20 are associated with soil samples in this SDG. These blanks were analyzed in SDG COAR2. Trip blank COAS7 reported acetone <CRQL, trip blank COAT2 reported acetone >CRQL and the rinsate blank reported chloromethane and toluene <CRQL and acetone >CRQL. Chloromethane and toluene were not detected in the field samples. Concentrations of acetone <CRQL have been reported at CRQL and qualified "U". Concentrations of acetone >CRQL but  $\leq 2X$  the blank value have been reported and qualified "U".

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide and Aroclor samples COAT5 reported acceptable results.

Recoveries for several DMCs were outside the upper control limits in several volatile samples. No positive results were reported for analytes associated with these DMCs in the affected samples. No data were qualified based on these outliers.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for samples listed below. These samples were reanalyzed at dilutions within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample | DF  | Affected Analytes  |
|----------|--------|-----|--|
| PAH      | COAK4  | 5X  | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COAK5  | 5X  | Fluoranthene, Pyrene   |
|          | COAQ2  | 5X  | Fluoranthene   |
|          | COAS9  | 5X  | Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene |
|          | COAQ0  | 10X | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |

Results for the field duplicate pairs, samples COAN3/COAS8 and COAQ4/COAT5, were within control limits of 25% Relative Percent Difference (RPD) or  $\pm$  CRQL for all analytes.

Sediment samples COAQ2 and COAQ3 reported %solids <30. CRQLs are elevated due to high moisture content in these samples. No data were qualified based on %solids.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.



### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: ABLK87

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: ALCS87

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AK4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-29

pH:

Sample Date: 10/01/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 82.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 68                | J               | ug/kg | 68         | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                    | % Solids: 82.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.56              | R               | ug/kg | 0.56       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.81              | R               | ug/kg | 0.81       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.6               | J               | ug/kg | 2.6        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.79              | J               | ug/kg | 0.79       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.6               | J               | ug/kg | 2.6        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.2               | R               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                       | % Solids: 82.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 44                | J               | ug/kg | 44         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                              | % Solids: 82.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.1               | U               | ug/kg | 8.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 81                |                 | ug/kg | 81         | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 67                |                 | ug/kg | 67         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 61                |                 | ug/kg | 61         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.5               |                 | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK4           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                           | % Solids: 82.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 22                | U               | ug/kg | 22         | B        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               | U               | ug/kg | 4.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Benzene, 1,3-bis(1,1-dimethylethyl | TIC          | 3.3               | JN              | ug/kg | 3.3        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AK5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-30

pH:

Sample Date: 10/01/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 80.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                    | % Solids: 80.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.61              | R               | ug/kg | 0.61       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.63              | R               | ug/kg | 0.63       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.76              | J               | ug/kg | 0.76       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 3.8               | J               | ug/kg | 3.8        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.6               | J               | ug/kg | 2.6        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                       | % Solids: 80.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 200               | B               | ug/kg | 200        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                              | % Solids: 80.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 82                |                 | ug/kg | 82         | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 70                |                 | ug/kg | 70         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 58                |                 | ug/kg | 58         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                           | % Solids: 80.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 5.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | U               | ug/kg | 4.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AK7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-32

pH:

Sample Date: 10/01/2020

Sample Time: 09:45:00

% Moisture:

% Solids: 87.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 17                | J               | ug/kg | 17         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AK7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-32 | pH:                | Sample Date: 10/01/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                    | % Solids: 87.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.24              | R               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.43              | R               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.34              | J               | ug/kg | 0.34       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.27              | R               | ug/kg | 0.27       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.66              | R               | ug/kg | 0.66       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AK7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-32 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                       | % Solids: 87.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 76                | U               | ug/kg | 76         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                 | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene                 | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                       | Target       | 39                | J               | ug/kg | 39         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine        | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate         | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                | TIC          | 140               | B               | ug/kg | 140        | B        | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)- | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AK7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-32 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                              | % Solids: 87.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.91              | J               | ug/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               |                 | ug/kg | 3.8        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               |                 | ug/kg | 4.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AK7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-32 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                           | % Solids: 87.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/kg | 2.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AL0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-35

pH:

Sample Date: 09/30/2020

Sample Time: 14:30:00

% Moisture:

% Solids: 83.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AL0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                    | % Solids: 83.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.53              | J               | ug/kg | 0.53       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.78              | R               | ug/kg | 0.78       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.8               | J               | ug/kg | 2.8        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.58              | J               | ug/kg | 0.58       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.6               | J               | ug/kg | 3.6        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.5               | J               | ug/kg | 3.5        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AL0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                       | % Solids: 83.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Octadecanal                | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 1600              | B               | ug/kg | 1600       | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AL0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                              | % Solids: 83.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 5.9               |                 | ug/kg | 5.9        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 6.2               |                 | ug/kg | 6.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AL0           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                           | % Solids: 83.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 8.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 2.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| p-Cymene                              | TIC          | 3.2               | JN              | ug/kg | 3.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AM9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-29

pH:

Sample Date: 10/01/2020

Sample Time: 10:50:00

% Moisture:

% Solids: 87.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AM9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-29 | pH:                | Sample Date: 10/01/2020 | Sample Time: 10:50:00 |
| % Moisture:                    |                    | % Solids: 87.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AM9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-29 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 10:50:00 |
| % Moisture:                    |                       | % Solids: 87.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 76                | U               | ug/kg | 76         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dodecanoic acid            | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| E-14-Hexadecenal           | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AM9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-29 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 10:50:00 |
| % Moisture:                    |                              | % Solids: 87.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.91              | J               | ug/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AM9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-29 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 10:50:00 |
| % Moisture:                    |                           | % Solids: 87.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 18                | U               | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.4               | U               | ug/kg | 2.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AL0

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AN0           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:              | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                  | % Solids: 85.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 5.4               | J               | ug/kg | 5.4        | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:                | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                    | % Solids: 85.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.20              | J               | ug/kg | 0.20       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.41              | J               | ug/kg | 0.41       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.27              | J               | ug/kg | 0.27       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                       | % Solids: 85.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethyl carbitol                   | TIC          | 79                | JN              | ug/kg | 79         | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 410               | JN              | ug/kg | 410        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1-Heneicosanol                     | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 82                | JN              | ug/kg | 82         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                              | % Solids: 85.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.8               | U               | ug/kg | 7.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.87              | J               | ug/kg | 0.87       | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.83              | J               | ug/kg | 0.83       | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.77              | J               | ug/kg | 0.77       | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN0           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 85.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.8               | U               | ug/kg | 2.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AN2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-32

pH:

Sample Date: 10/01/2020

Sample Time: 09:50:00

% Moisture:

% Solids: 83.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-32 | pH:                | Sample Date: 10/01/2020 | Sample Time: 09:50:00 |
| % Moisture:                    |                    | % Solids: 83.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-32 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 09:50:00 |
| % Moisture:                    |                       | % Solids: 83.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                 | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine        | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate         | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)- | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid          | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| n-Tetracosanol-1             | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN2           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-32 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 09:50:00 |
| % Moisture:                    |                              | % Solids: 83.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.84              | J               | ug/kg | 0.84       | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.92              | J               | ug/kg | 0.92       | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-32 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 09:50:00 |
| % Moisture:                    |                           | % Solids: 83.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 22                | U               | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.8               | U               | ug/kg | 3.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AN3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-33

pH:

Sample Date: 09/30/2020

Sample Time: 12:50:00

% Moisture:

% Solids: 75.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                    | % Solids: 75.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                       | % Solids: 75.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 420               | B               | ug/kg | 420        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                              | % Solids: 75.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                           | % Solids: 75.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 4.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.5               | U               | ug/kg | 3.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AN5           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:              | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                  | % Solids: 84.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                    | % Solids: 84.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                       | % Solids: 84.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 9-Octadecenamamide, (Z)-           | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-       | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 350               | B               | ug/kg | 350        | B        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 83                | JN              | ug/kg | 83         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                              | % Solids: 84.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                           | % Solids: 84.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 20                | U               | ug/kg | 8.2        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AN6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-36

pH:

Sample Date: 09/30/2020

Sample Time: 11:10:00

% Moisture:

% Solids: 82.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | J               | ug/kg | 38         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 11                | R               | ug/kg | 11         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AN6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                    | % Solids: 82.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.55              | J               | ug/kg | 0.55       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.0               | J               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.56              | J               | ug/kg | 0.56       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.9               |                 | ug/kg | 4.9        |          | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.71              | J               | ug/kg | 0.71       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AN6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                       | % Solids: 82.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 3000              |                 | ug/kg | 3000       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 10,18-Bisnorabieta-5,7,9(10),11,13 | TIC          | 380               | JN              | ug/kg | 380        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 2700              | B               | ug/kg | 2700       | B        | 1.0             | YES        | NV               |
| Phosphoric acid, tris(2-methylphen | TIC          | 910               | JN              | ug/kg | 910        | JN       | 1.0             | YES        | NV               |
| Retene                             | TIC          | 1800              | JN              | ug/kg | 1800       | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 10,18-Bisnorabieta-8,11,13-triene  | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Phosphoric acid, tris(3-methylphen | TIC          | 570               | JN              | ug/kg | 570        | JN       | 1.0             | YES        | NV               |
| 4b,8-Dimethyl-2-isopropylphenanthr | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Hexadecanamide                     | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| Sulfurous acid, nonyl pentyl ester | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AN6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                              | % Solids: 82.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 9.7               |                 | ug/kg | 9.7        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 6.5               |                 | ug/kg | 6.5        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               |                 | ug/kg | 4.1        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AN6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                           | % Solids: 82.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.5               | U               | ug/kg | 2.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AP9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-16

pH:

Sample Date: 10/01/2020

Sample Time: 08:45:00

% Moisture:

% Solids: 53.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 62                | U               | ug/kg | 62         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                    | % Solids: 53.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 32                | U               | ug/kg | 32         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.2               | U               | ug/kg | 3.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                       | % Solids: 53.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 120               | U               | ug/kg | 120        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 610               | U               | ug/kg | 610        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                              | % Solids: 53.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 5.9               | J               | ug/kg | 5.9        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.6               | J               | ug/kg | 4.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 53.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 22                | U               | ug/kg | 22         | B        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                | U               | ug/kg | 4.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name     | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Furan, 2-methyl- | TIC          | 6.2               | JN              | ug/kg | 6.2        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-17

pH:

Sample Date: 10/01/2020

Sample Time: 07:20:00

% Moisture:

% Solids: 59.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 36                | J               | ug/kg | 36         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                    | % Solids: 59.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.71              | R               | ug/kg | 0.71       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 2.5               | J               | ug/kg | 2.5        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.86              | J               | ug/kg | 0.86       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | R               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                       | % Solids: 59.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 380               | J               | ug/kg | 380        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 250               | J               | ug/kg | 250        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 620               | B               | ug/kg | 620        | B        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                              | % Solids: 59.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 6.4               |                 | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 130               |                 | ug/kg | 130        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 360               |                 | ug/kg | 360        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 290               |                 | ug/kg | 290        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 170               |                 | ug/kg | 170        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 270               |                 | ug/kg | 270        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 94                |                 | ug/kg | 94         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 160               |                 | ug/kg | 160        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 94                |                 | ug/kg | 94         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 89                |                 | ug/kg | 89         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ0           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                           | % Solids: 59.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 70                |                 | ug/kg | 70         | B        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.9               | U               | ug/kg | 2.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                      | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Sulfurous acid, butyl nonyl ester | TIC          | 3.6               | JN              | ug/kg | 3.6        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name: NORWOOD LANDFILL Project**

**GroupID: 49088/EPW14030/C0AL0**

**Lab Name: Chemtech Consulting Group**

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AQ2           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:              | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                  | % Solids: 23.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 140               | UJ              | ug/kg | 140        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                    | % Solids: 23.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 7.1               | U               | ug/kg | 7.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.9               | R               | ug/kg | 1.9        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 71                | U               | ug/kg | 71         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | J               | ug/kg | 1.7        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.4               | R               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                       | % Solids: 23.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 970               |                 | ug/kg | 970        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 1400              | U               | ug/kg | 1400       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 710               | U               | ug/kg | 710        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 990               | B               | ug/kg | 990        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ2           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                              | % Solids: 23.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.0               | J               | ug/kg | 7.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 79                |                 | ug/kg | 79         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 180               |                 | ug/kg | 180        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 120               |                 | ug/kg | 120        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 110               |                 | ug/kg | 110        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 68                |                 | ug/kg | 68         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 65                |                 | ug/kg | 65         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                           | % Solids: 23.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 130               |                 | ug/kg | 130        |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 26                | U               | ug/kg | 7.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| o-Cymene     | TIC          | 27                | JN              | ug/kg | 27         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-20

pH:

Sample Date: 10/01/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 17.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                    | % Solids: 17.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 9.6               | UJ              | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 96                | UJ              | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 19                | UJ              | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | J               | ug/kg | 2.2        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 960               | UJ              | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                   | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                       | % Solids: 17.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 960               | R               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 1900              | R               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 1900              | R               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 1900              | R               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 1900              | R               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 1900              | R               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 1900              | U               | ug/kg | 1900       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 530               | B               | ug/kg | 530        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                          | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                              | % Solids: 17.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 8.1               | J               | ug/kg | 8.1        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 12                | J               | ug/kg | 12         | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 15                | J               | ug/kg | 15         | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 8.1               | J               | ug/kg | 8.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 13                | J               | ug/kg | 13         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 8.8               | J               | ug/kg | 8.8        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.6               | J               | ug/kg | 8.6        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                           | % Solids: 17.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 37                | U               | ug/kg | 12         | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 74                | U               | ug/kg | 74         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 74                | U               | ug/kg | 74         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 37                | UJ              | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-21

pH:

Sample Date: 10/05/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 34.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                    | % Solids: 34.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                   | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                       | % Solids: 34.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 640               |                 | ug/kg | 640        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 960               | U               | ug/kg | 960        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 500               | B               | ug/kg | 500        | B        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                          | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                              | % Solids: 34.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 5.5               | J               | ug/kg | 5.5        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 7.6               | J               | ug/kg | 7.6        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 8.8               | J               | ug/kg | 8.8        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 7.2               | J               | ug/kg | 7.2        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.6               | J               | ug/kg | 4.6        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.5               | J               | ug/kg | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ4           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                       | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                           | % Solids: 34.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 20                | U               | ug/kg | 6.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 13                | BN              | ug/kg | 13         | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AS8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-33

pH:

Sample Date: 09/30/2020

Sample Time: 13:00:00

% Moisture:

% Solids: 87.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AS8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                | Sample Date: 09/30/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                    | % Solids: 87.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AS8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                       | % Solids: 87.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 77                | U               | ug/kg | 77         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Eicosanoic acid, 2-(acetyloxy)-1-[ | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 300               | B               | ug/kg | 300        | B        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AS8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                              | % Solids: 87.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0A58           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                           | % Solids: 87.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.1               | U               | ug/kg | 2.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AS9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-33

pH:

Sample Date: 09/30/2020

Sample Time: 12:45:00

% Moisture:

% Solids: 88.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AS9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                | Sample Date: 09/30/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                    | % Solids: 88.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 20                | J               | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 2.4               | R               | ug/kg | 2.4        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | J               | ug/kg | 4.1        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.1               | J               | ug/kg | 3.1        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.70              | R               | ug/kg | 0.70       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AS9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                   | Sample Date: 09/30/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                       | % Solids: 88.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 2400              |                 | ug/kg | 2400       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 680               |                 | ug/kg | 680        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 2800              |                 | ug/kg | 2800       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 2200              |                 | ug/kg | 2200       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 930               |                 | ug/kg | 930        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene, 2-methyl-               | TIC          | 540               | JN              | ug/kg | 540        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-         | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          | 220               | B               | ug/kg | 220        | B        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione                | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene      | TIC          | 650               | JN              | ug/kg | 650        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene                | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,3-dimethyl-          | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4-methyl-             | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Triphenylene, 2-methyl-             | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                   | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Cyclopenta[cd]pyrene                | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one          | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene     | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one          | TIC          | 78                | JN              | ug/kg | 78         | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-             | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone       | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| 4-Methylnaphtho[1,2-b]thiophene     | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| 8-Dimethylaminonaphthalene-1-carbo  | TIC          | 89                | JN              | ug/kg | 89         | JN       | 1.0             | YES        | NV               |
| Phenol, 4-(2-phenylethenyl)-, (E)-  | TIC          | 75                | JN              | ug/kg | 75         | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                    | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-ol                     | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,3-dimethyl-         | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-              | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                 | TIC          | 76                | JN              | ug/kg | 76         | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-             | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| 9H-Fluorene, 1-methyl-              | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 3,6-dimethyl-         | TIC          | 87                | JN              | ug/kg | 87         | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[1]phenanthrene, 1a,9b | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Dibenzofuran, 4-methyl-             | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| unknown-01                          | TIC          | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | NV               |
| Dibenzothiophene                    | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AS9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                          | Sample Date: 09/30/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                              | % Solids: 88.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 310               | J               | ug/kg | 310        | ED       | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3000              | J               | ug/kg | 3000       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 950               | J               | ug/kg | 950        | ED       | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3500              | J               | ug/kg | 3500       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 2700              | J               | ug/kg | 2700       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1700              | J               | ug/kg | 1700       | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 540               | J               | ug/kg | 540        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 500               | J               | ug/kg | 500        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS9           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                           | % Solids: 88.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.1               | U               | ug/kg | 2.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AT5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-21

pH:

Sample Date: 10/05/2020

Sample Time: 16:00:00

% Moisture:

% Solids: 38.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AT5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                    | % Solids: 38.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AT5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                   | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                       | % Solids: 38.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 860               | U               | ug/kg | 860        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentafluoropropionic acid, pentade | TIC          | 390               | JN              | ug/kg | 390        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AT5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                          | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                              | % Solids: 38.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 7.0               | J               | ug/kg | 7.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AT5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                       | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                           | % Solids: 38.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 13                | U               | ug/kg | 5.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AL0

**Lab Name:** Chemtech Consulting Group

|                        |                  |                         |                       |
|------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AT5MS | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:              | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:            |                  | % Solids: 38.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AT5MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:            |                    | % Solids: 38.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 79                |                 | ug/kg | 79         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 89                |                 | ug/kg | 89         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 79                |                 | ug/kg | 79         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

Sample Number: C0AT5MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/05/2020

Sample Time: 16:00:00

% Moisture:

% Solids: 38.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AT5MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:             |                    | % Solids: 38.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 80                |                 | ug/kg | 80         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 89                |                 | ug/kg | 89         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 80                |                 | ug/kg | 80         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AT6           | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-07 | pH: 1.0                   | Sample Date: 10/05/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                |                 | ug/L  | 13         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 1.4               | J               | ug/L  | 1.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 2.6        | JB       | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Ethyl Acetate | TIC          | 4.7               | JN              | ug/L  | 4.7        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK40 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS40 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.3               | JP              | ug/kg | 1.3        | JP       | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK41 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 240               | N               | ug/kg | 240        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK42 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK25 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK26 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK27 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK28 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK71 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 2.1               | J               | ug/L  | 2.1        | J        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| unknown-01                            | TIC          | 6.4               | J               | ug/L  | 6.4        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.1               | J               | ug/kg | 3.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.76              | J               | ug/L  | 0.76       | J        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 1.6               | J               | ug/L  | 1.6        | JB       | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AL0

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/20/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# C0AP6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220063



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: ABLK02

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: ALCS02

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 29                | JP              | ug/kg | 29         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 31                | JP              | ug/kg | 31         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-13

pH:

Sample Date: 10/06/2020

Sample Time: 09:10:00

% Moisture:

% Solids: 61.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 110               | J               | ug/kg | 110        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-13 | pH:                | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                    | % Solids: 61.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.6               | J               | ug/kg | 1.6        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.9               | J               | ug/kg | 5.9        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.67              | J               | ug/kg | 0.67       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 8.1               |                 | ug/kg | 8.1        |          | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.4               | J               | ug/kg | 2.4        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 6.9               | J               | ug/kg | 6.9        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 5.1               | J               | ug/kg | 5.1        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-13 | pH:                   | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                       | % Solids: 61.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 620               |                 | ug/kg | 620        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 570               |                 | ug/kg | 570        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 660               |                 | ug/kg | 660        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 540               | U               | ug/kg | 540        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 770               |                 | ug/kg | 770        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| unknown-01                     | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| (1-Cyclopentenyl)ferrocene     | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene           | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-        | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-        | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione           | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-13 | pH:                          | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                              | % Solids: 61.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 520               | J               | ug/kg | 520        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 800               | J               | ug/kg | 800        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 480               | J               | ug/kg | 480        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 730               | J               | ug/kg | 730        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 430               |                 | ug/kg | 430        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 86                |                 | ug/kg | 86         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-13 | pH:                       | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                           | % Solids: 61.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.2               | U               | ug/kg | 2.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 4.0               | BN              | ug/kg | 4.0        | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-14

pH:

Sample Date: 10/06/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 80.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 32                | J               | ug/kg | 32         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                    | % Solids: 80.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | J               | ug/kg | 2.2        |          | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.5               | J               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                   | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                       | % Solids: 80.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 44                | J               | ug/kg | 44         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 910               |                 | ug/kg | 910        |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 760               |                 | ug/kg | 760        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 590               |                 | ug/kg | 590        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-       | TIC          | 87                | JN              | ug/kg | 87         | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 97                | JN              | ug/kg | 97         | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene                     | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene    | TIC          | 86                | JN              | ug/kg | 86         | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 83                | JN              | ug/kg | 83         | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 87                | JN              | ug/kg | 87         | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                          | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                              | % Solids: 80.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.3               |                 | ug/kg | 4.3        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 740               | J               | ug/kg | 740        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 730               | J               | ug/kg | 730        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 280               |                 | ug/kg | 280        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 92                |                 | ug/kg | 92         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                       | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                           | % Solids: 80.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.2               | U               | ug/kg | 4.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 9.1               | BN              | ug/kg | 9.1        | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-15

pH:

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 66.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 32                | J               | ug/kg | 32         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP8           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                    | % Solids: 66.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.6               | J               | ug/kg | 1.6        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.66              | J               | ug/kg | 0.66       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.70              | J               | ug/kg | 0.70       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 2.3               | J               | ug/kg | 2.3        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | J               | ug/kg | 1.9        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AP8           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                   | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                       | % Solids: 66.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 100               | U               | ug/kg | 100        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 520               |                 | ug/kg | 520        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 580               |                 | ug/kg | 580        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Acetaminophen              | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AP8           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                          | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                              | % Solids: 66.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 9.0               |                 | ug/kg | 9.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 570               | J               | ug/kg | 570        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 430               | J               | ug/kg | 430        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AP8           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                       | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                           | % Solids: 66.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.3               | U               | ug/kg | 5.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 5.1               | BN              | ug/kg | 5.1        | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP8MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 66.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 160               | J               | ug/kg | 160        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 77                | J               | ug/kg | 77         | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 140               | J               | ug/kg | 140        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP8MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                    | % Solids: 66.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.88              | J               | ug/kg | 0.88       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 2.8               | J               | ug/kg | 2.8        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Spike        | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 25                | U               | ug/kg | 25         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

Sample Number: C0AP8MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 66.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 180               | J               | ug/kg | 180        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 86                | J               | ug/kg | 86         | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 160               | J               | ug/kg | 160        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 49                | U               | ug/kg | 49         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AP8MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:             |                    | % Solids: 66.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.5               | U               | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.91              | J               | ug/kg | 0.91       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 2.9               | J               | ug/kg | 2.9        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Spike        | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.6               | J               | ug/kg | 1.6        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW1           | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-10 | pH: 1.0                   | Sample Date: 10/06/2020 | Sample Time: 07:30:00 |
| % Moisture:                    |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.7               | J               | ug/L  | 9.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK17 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS17 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Spike        | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK18 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 200               | N               | ug/kg | 200        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK19 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK27 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK28 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK29 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.8               | J               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK79 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 6.4               | J               | ug/kg | 6.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.0               | J               | ug/kg | 3.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AP6

Lab Name: Chemtech Consulting Group

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ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 19, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49088 COAP6

### **Overview**

This data package consisted of one (1) trip blank and three (3) sediment samples analyzed for volatile target analytes. Additionally, three (3) sediment samples were analyzed for Aroclors, pesticide, semivolatile target analytes and Polynuclear Aromatic Hydrocarbon (PAH) by Selective Ion Monitoring (SIM) analysis.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 27, 2020.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Less significant data quality outliers were identified resulting in estimation of sample results including but not limited to surrogate recoveries and calibration precision.

### Minor Problems

Percent recovery for pesticide surrogate decachlorobiphenyl (DCB) was outside the lower control limit for sample COAP7. Detected concentrations for pesticides in this sample are estimated and have been qualified "J". Non-detects are estimated and have been qualified "UJ".

The following analytes exceeded calibration range in the diluted analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COAP6  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene<br>Chrysene, Benzo(b)fluoranthene                 |
|          | COAP7  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene<br>Benzo(b)fluoranthene, Benzo(a)pyrene |
|          | COAP8  | 5x | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |

### Notes

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Pesticide results for trans-chlordane, cis-chlordane and dieldrin in sample COAP6 and cis-chlordane in sample COAP7 had Percent Differences (%D) between the two (2) analytical columns of > 25.0% and < 200%. In the Aroclor fraction, Aroclor 1254 in sample COAP6 had a D% between the two (2) analytical columns of > 25.0% and < 200%. The results for these analytes are estimated and have been qualified "J". The lower of the two (2) column result is reported. All other reported results base on dual column precision were less than the CRQL.

In the volatile fraction, Method Blank (MB) VBLK79 was free from contamination. MB VBLK27/VBLK28 reported methylene chloride less than the CRQL. Storage blank (SB) VHBLK01 was free from contamination. SB VHBLK02 reported acetone and methylene chloride less than the CRQL. Detected concentrations of methylene chloride less than the CRQL in the associated field samples, have been reported at the CRQL and qualified "U".

Volatile trip blank COAW1 reported acetone less than the CRQL. The associated field sample were non-detect for this analyte. No data were qualified based on this finding.

In the pest/Aroclors/semivolatile/SIM fractions, MBs were free from contaminations.

Percent recoveries for Aroclors/pesticide target analytes in Laboratory Control Sample (LCS) analyses were within control limits on both columns. No data were qualified based on LCS precision or accuracy.



Percent recoveries and Relative Percent Differences (RPDs) for Aroclors/pesticide target analytes in Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis of sample COAP8 were within control limits on both columns. No data were qualified based on this finding.

Concentrations of the following PAH analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Sample | DF | Analyte  |
|--------|----|--|
| COAP6  | 5x | Anthracene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene<br>Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene         |
| COAP7  | 5x | Anthracene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene<br>Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene                         |
| COAP8  | 5x | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene<br>Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |

Surrogate recoveries requirements do not apply to samples that have been diluted.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

## Glossary of Organic Data Qualifier Codes

| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
|-----------------------|---|
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                       |
| U                     | The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 11/16/2020  
SUBJECT: Region III Data QA Review  
FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# C0AR2 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020047





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 12, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49088 COAR2

### **Overview**

This data package consisted of two (2) trip blanks and two (2) rinsate blanks analyzed for trace volatile analytes, four (4) trip blanks analyzed for volatile analytes, three (3) surface water and two (2) ground water samples analyzed for trace volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 22, 2020.

### **Summary**

A significant data quality outlier regarding a Deuterated Monitoring Compound (DMC) in semivolatile fraction was identified that resulted in rejection of results. Less significant data quality outliers were identified that resulted in estimation of sample results including but not limited to DMCs in trace volatile fraction as detailed below.

### **Major Problem**

Recovery for DMC 4-Nitrophenol-<sub>d4</sub> was <10% in semivolatile sample COAR6. No positive results were reported for analytes associated with this DMC in this sample. Quantitation limits for analytes associated with this DMC have been rejected and qualified "R".

**Minor Problems**

Recovery for DMC 1,1-Dichloroethene- $d_2$  was outside the lower control limit in trace volatile sample COAR2. No positive results were reported for analytes associated with this DMC. Quantitation limits for analytes associated with this DMC in this sample have been qualified "UJ".

**Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J".

Laboratory blanks reported methylene chloride and chloroform <CRQL in trace volatile blanks VBLK19 and VBLK21 and methylene chloride <CRQL in trace volatile blanks VBLK22 and VHBLK02. Only chloroform was detected in associated samples (COAT3). The positive result <CRQL in this sample has been reported at CRQL and qualified "U". All other laboratory blanks were free from contamination.

Two trip blanks and two rinsate blanks were analyzed using the trace volatile method. These blanks reported chloromethane, acetone, benzene and/or toluene <CRQL or acetone >CRQL. Benzene was not detected in the field samples. Concentrations of chloromethane, acetone and toluene <CRQL in the associated field samples have been reported at CRQL and qualified "U". Concentration of acetone in sample COAR5 >CRQL but <2X the blank value has been reported and qualified "U".

Four trip blanks were analyzed using the volatile method. These trip blanks reported chloromethane, acetone and/or toluene < CRQL or acetone >CRQL. No field samples were associated with these blanks in this SDG. No data were qualified based on trip blanks in volatile fraction.

Pesticide results with %D >25% and < 200% between the two analytical columns have been qualified "J".

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide sample COAR6 reported recovery outside the upper control limit for endrin in both MS/MSD analysis on one column. No positive result was reported for endrin in the parent sample. All other criteria were met for the MS/MSD. No data were qualified based on this outlier.

MS/MSD analyses for Aroclor sample COAR6 reported acceptable results.

The original COCs listed the collection method as composite instead of grab for all soil samples. This was revised in subsequent COCs. No data were qualified due to this issue.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: ABLK76

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: ALCS76

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 0.96              | JP              | ug/L  | 0.96       | JP       | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 1.0               |                 | ug/L  | 1.0        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: C0AR0

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-16

pH: 6

Sample Date: 10/01/2020

Sample Time: 08:50:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR0           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-16 | pH: 6              | Sample Date: 10/01/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.012             | J               | ug/L  | 0.012      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR0           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-16 | pH: 6                 | Sample Date: 10/01/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 3.0               | J               | ug/L  | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Behenic alcohol            | TIC          | 4.3               | JN              | ug/L  | 4.3        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 7.0               | N               | ug/L  | 7.0        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 2.2               | JN              | ug/L  | 2.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR0           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-16 | pH: 6                        | Sample Date: 10/01/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.030             | J               | ug/L  | 0.030      | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR0           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-16 | pH: 1.0                 | Sample Date: 10/01/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.15       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: C0AR1

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-17

pH: 6

Sample Date: 10/01/2020

Sample Time: 07:25:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR1           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-17 | pH: 6              | Sample Date: 10/01/2020 | Sample Time: 07:25:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.012             | J               | ug/L  | 0.012      | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR1           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-17 | pH: 6                 | Sample Date: 10/01/2020 | Sample Time: 07:25:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 2.6               | J               | ug/L  | 2.6        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid        | TIC          | 3.7               | JN              | ug/L  | 3.7        | JN       | 1.0             | YES        | NV               |
| E-15-Heptadecenal          | TIC          | 6.3               | JN              | ug/L  | 6.3        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR1           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-17 | pH: 6                        | Sample Date: 10/01/2020 | Sample Time: 07:25:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.040             | J               | ug/L  | 0.040      | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.040             | J               | ug/L  | 0.040      | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR1           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-17 | pH: 1.0                 | Sample Date: 10/01/2020 | Sample Time: 07:25:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 1.5               | BN              | ug/L  | 1.5        | BN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: C0AR2

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-18

pH: 6

Sample Date: 09/28/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR2           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-18 | pH: 6              | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.010             | J               | ug/L  | 0.010      | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.012             | J               | ug/L  | 0.012      | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR2           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-18 | pH: 6                 | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.9               | J               | ug/L  | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid        | TIC          | 4.0               | JN              | ug/L  | 4.0        | JN       | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 5.4               | JN              | ug/L  | 5.4        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR2           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-18 | pH: 6                        | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.040             | J               | ug/L  | 0.040      | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.020             | J               | ug/L  | 0.020      | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR2           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-18 | pH: 1.0                 | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.32       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: C0AR5

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-GW-03

pH: 6

Sample Date: 10/01/2020

Sample Time: 14:05:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR5           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-03 | pH: 6              | Sample Date: 10/01/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR5           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-03 | pH: 6                 | Sample Date: 10/01/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 2.8               | J               | ug/L  | 2.8        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid                | TIC          | 4.5               | JN              | ug/L  | 4.5        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 7.9               | N               | ug/L  | 7.9        | N        | 1.0             | YES        | NV               |
| Ethanone, 2-(1-methylethoxy)-1,2-d | TIC          | 2.7               | JN              | ug/L  | 2.7        | JN       | 1.0             | YES        | NV               |
| Acetamide, N-(3-methylphenyl)-     | TIC          | 2.0               | JN              | ug/L  | 2.0        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR5           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-03 | pH: 6                        | Sample Date: 10/01/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR5           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-03 | pH: 1.0                 | Sample Date: 10/01/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.090      | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/L  | 12         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.10              | J               | ug/L  | 0.10       | J        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW14030/C0AR2

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AR6           | Method: Aroclors | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 6            | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                  | % Solids: 0             |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR6           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 6              | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR6           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 6                 | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | R               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.8               | J               | ug/L  | 1.8        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | R               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | R               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | R               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | R               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 5.2               | N               | ug/L  | 5.2        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 2.2               | JN              | ug/L  | 2.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR6           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 6                        | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.020             | J               | ug/L  | 0.020      | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR6           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 1.0                 | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.82              |                 | ug/L  | 0.82       |          | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.24              | J               | ug/L  | 0.24       | J        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.27              | J               | ug/L  | 0.27       | J        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.33              | J               | ug/L  | 0.33       | J        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: C0AR6MS

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date: 10/01/2020

Sample Time: 12:25:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 4.0               |                 | ug/L  | 4.0        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 4.3               |                 | ug/L  | 4.3        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR6MS | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 6              | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:            |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.49              |                 | ug/L  | 0.49       |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 0.52              |                 | ug/L  | 0.52       |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 0.51              |                 | ug/L  | 0.51       |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 1.0               |                 | ug/L  | 1.0        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 1.2               |                 | ug/L  | 1.2        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 1.0               |                 | ug/L  | 1.0        |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

Sample Number: C0AR6MSD

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date: 10/01/2020

Sample Time: 12:25:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 4.2               |                 | ug/L  | 4.2        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 4.5               |                 | ug/L  | 4.5        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR6MSD | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location:        | pH: 6              | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:             |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.48              |                 | ug/L  | 0.48       |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 0.52              |                 | ug/L  | 0.52       |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 0.51              |                 | ug/L  | 0.51       |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 1.0               |                 | ug/L  | 1.0        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 1.2               |                 | ug/L  | 1.2        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 1.0               |                 | ug/L  | 1.0        |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR9           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-01 | pH: 1.0                 | Sample Date: 09/28/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.24              | J               | ug/L  | 0.24       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 2.5               | J               | ug/L  | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS0           | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-02 | pH: 1.0                   | Sample Date: 09/28/2020 | Sample Time: 08:30:00 |
| % Moisture:                    |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| unknown-01   | TIC          | 5.7               | JB              | ug/L  | 5.7        | JB       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AS1           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-RB-01 | pH: 1.0                 | Sample Date: 09/30/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.10              | J               | ug/L  | 0.10       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.9               |                 | ug/L  | 9.9        |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.49              | J               | ug/L  | 0.49       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetic acid, 2-ethylhexyl ester       | TIC          | 0.79              | JN              | ug/L  | 0.79       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Ethyl Acetate | TIC          | 3.5               | JN              | ug/L  | 3.5        | JN       | 1.0             | YES        | NV               |
| Hexanal       | TIC          | 0.62              | JN              | ug/L  | 0.62       | JN       | 1.0             | YES        | NV               |
| Total Alkanes | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS6           | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-03 | pH: 1.0                   | Sample Date: 09/29/2020 | Sample Time: 08:30:00 |
| % Moisture:                    |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.75              | J               | ug/L  | 0.75       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                |                 | ug/L  | 10         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.74              | J               | ug/L  | 0.74       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                            | TIC          | 5.6               | JB              | ug/L  | 5.6        | JB       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| Ethyl Acetate | TIC          | 3.6               | JN              | ug/L  | 3.6        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AS7           | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-04 | pH: 1.0                   | Sample Date: 09/30/2020 | Sample Time: 08:30:00 |
| % Moisture:                    |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.5               | J               | ug/L  | 9.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| unknown-01    | TIC          | 5.5               | JB              | ug/L  | 5.5        | JB       | 1.0             | YES        | NV               |
| Ethyl Acetate | TIC          | 3.5               | JN              | ug/L  | 3.5        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AT1           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-05 | pH: 1.0                 | Sample Date: 10/01/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.63              |                 | ug/L  | 0.63       |          | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                |                 | ug/L  | 11         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.45              | J               | ug/L  | 0.45       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetic acid, 2-ethylhexyl ester       | TIC          | 0.76              | JN              | ug/L  | 0.76       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Hexanal       | TIC          | 0.63              | JN              | ug/L  | 0.63       | JN       | 1.0             | YES        | NV               |
| Ethyl Acetate | TIC          | 3.6               | JN              | ug/L  | 3.6        | JN       | 1.0             | YES        | NV               |
| Total Alkanes | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AT2           | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-06 | pH: 1.0                   | Sample Date: 10/01/2020 | Sample Time: 08:30:00 |
| % Moisture:                    |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                |                 | ug/L  | 11         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                            | TIC          | 7.1               | J               | ug/L  | 7.1        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Ethyl Acetate | TIC          | 3.8               | JN              | ug/L  | 3.8        | JN       | 1.0             | YES        | NV               |
| Total Alkanes | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AT3           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-RB-02 | pH: 1.0                 | Sample Date: 10/01/2020 | Sample Time: 10:15:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.31              | J               | ug/L  | 0.31       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 1.6               | J               | ug/L  | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.20       | JB       | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Acetaldehyde | TIC          | 0.55              | JN              | ug/L  | 0.55       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK77 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS77 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.044             | J               | ug/L  | 0.044      | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 0.051             |                 | ug/L  | 0.051      |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 0.097             | J               | ug/L  | 0.097      | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 0.097             | J               | ug/L  | 0.097      | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 0.099             | J               | ug/L  | 0.099      | J        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 0.074             | J               | ug/L  | 0.074      | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 0.051             |                 | ug/L  | 0.051      |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK74 | Method: Semivolatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                 | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 0   |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK75 | Method: Semivolatiles by SIM | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                        | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 0   |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                         |               |              |
|-----------------------|-------------------------|---------------|--------------|
| Sample Number: VBLK19 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                     | Sample Date:  | Sample Time: |
| % Moisture:           |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 0.18              | J               | ug/L  | 0.18       | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 0.21              | J               | ug/L  | 0.21       | J        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                         |               |              |
|-----------------------|-------------------------|---------------|--------------|
| Sample Number: VBLK21 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                     | Sample Date:  | Sample Time: |
| % Moisture:           |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 0.20              | J               | ug/L  | 0.20       | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 0.26              | J               | ug/L  | 0.26       | J        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                         |               |              |
|-----------------------|-------------------------|---------------|--------------|
| Sample Number: VBLK22 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                     | Sample Date:  | Sample Time: |
| % Moisture:           |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 0.21              | J               | ug/L  | 0.21       | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK61 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| unknown-01   | TIC          | 4.6               | J               | ug/L  | 4.6        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK62 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| unknown-01   | TIC          | 3.9               | J               | ug/L  | 3.9        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK63 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name                      | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Propanoic acid, 2,2,3-trichloro-, | TIC          | 5.0               | JN              | ug/L  | 5.0        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

| Analyte Name                      | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Propanoic acid, 2,2,3-trichloro-, | TIC          | 5.4               | JBN             | ug/L  | 5.4        | JBN      | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

|                        |                         |               |              |
|------------------------|-------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                 | Sample Date:  | Sample Time: |
| % Moisture:            |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.17              | J               | ug/L  | 0.17       | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR2

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/20/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink, appearing to read "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# C0AR3 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220064





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 19, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49088 COAR3

### **Overview**

This data package consisted of two (2) trip blanks and two (2) ambient blanks analyzed for trace volatile analytes, four (4) surface water samples including one (1) field duplicate pair and three (3) ground water samples including one (1) field duplicate pair analyzed for trace volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 27, 2020.

### **Summary**

No significant data quality outliers were identified that would require rejection of sample results. Less significant data quality outliers were identified resulting in estimation of sample results, including but not limited to, Deuterated Monitoring Compound (DMC) and blank contamination in trace volatile fraction.

### **Minor Problem**

Recoveries of DMC 1,1-Dichloroethene-<sub>d2</sub> were outside the lower control limit in trace volatile samples CAR8 and COAT8. No positive results were detected for analytes associated with this DMC. Quantitation limits for analytes associated with this DMC have been qualified "UJ".

## Notes

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQL) are estimated and have been qualified "J".

Laboratory blanks were free of contamination in all fractions with the exception of methylene chloride >CRQL in VBLK81 and <CRQL in VHBLK01. Methylene chloride was not detected in field samples. No data were impacted based on this laboratory contamination.

Trip blanks, samples COAT7 and COAW0 and ambient blanks, samples COAT8 and COAT9 reported concentrations of chloromethane, acetone and/or toluene >CRQL or <CRQL. In addition, sample COAT7 and COAT8 reported 1,2,4-trichlorobenzene and styrene <CRQL, respectively. 1,2,4-trichlorobenzene and styrene were not detected in field samples. Positive results for these analytes <CRQL have been reported at CRQL and qualified "U". Positive results >CRQL but < the associated blank concentration (<2X the blank for acetone) have been reported and qualified "U". The positive result for chloromethane in sample COAR8 >CRQL and slightly > the blank value has been reported and qualified "J+" for high bias due to likely impact at this level from contamination.

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide samples COAQ9 reported recoveries outside the upper control limits for gamma-BHC, aldrin, dieldrin, endrin and/or 4,4'-DDT on one or both analytical columns. The only analyte detected in the parent sample is dieldrin <CRQL and already qualified "J". No additional data were qualified based on these outliers.

MS/MSD analyses of Aroclor sample COAQ9 reported acceptable results with the exception of recoveries for Aroclors 1016 and 1260 outside the upper control limit on one analytical column in the MS analysis. No positive results were reported for Aroclors in the parent sample COAQ9 and no data were qualified based on these outliers.

Results for the field duplicate pairs, samples COAR8/COAT4 and COAQ7/COAW2, were within  $\pm$  CRQL, 20% RPD for all analytes.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

#### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                       |
| U                     | The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit   |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: ABLK61

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: ALCS61

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 0.82              | JP              | ug/L  | 0.82       | JP       | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 0.88              | JP              | ug/L  | 0.88       | JP       | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ7

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-13

pH: 6

Sample Date: 10/06/2020

Sample Time: 09:10:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ7           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13 | pH: 6              | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.013             | J               | ug/L  | 0.013      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ7           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13 | pH: 6                 | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.8               | J               | ug/L  | 1.8        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| 1-Heneicosanol             | TIC          | 4.2               | JN              | ug/L  | 4.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ7           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13 | pH: 6                        | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ7           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13 | pH: 1.0                 | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.070      | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ8

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-14

pH: 6

Sample Date: 10/06/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ8           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-14 | pH: 6              | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.013             | J               | ug/L  | 0.013      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ8           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-14 | pH: 6                 | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.9               | J               | ug/L  | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| n-Tetracosanol-1           | TIC          | 5.1               | JN              | ug/L  | 5.1        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ8           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-14 | pH: 6                        | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ8           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-14 | pH: 1.0                 | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ9

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-15

pH: 6

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ9           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-15 | pH: 6              | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.011             | J               | ug/L  | 0.011      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AQ9           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-15 | pH: 6                 | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.6               | J               | ug/L  | 1.6        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| n-Nonadecanol-1            | TIC          | 4.5               | JN              | ug/L  | 4.5        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ9           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-15 | pH: 6                        | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.030             | J               | ug/L  | 0.030      | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.020             | J               | ug/L  | 0.020      | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.020             | J               | ug/L  | 0.020      | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AQ9           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-15 | pH: 1.0                 | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.10       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ9MS

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 4.4               |                 | ug/L  | 4.4        | P        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 4.2               |                 | ug/L  | 4.2        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ9MS | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 6              | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.63              |                 | ug/L  | 0.63       |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 0.62              |                 | ug/L  | 0.62       |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 0.60              |                 | ug/L  | 0.60       |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 1.3               |                 | ug/L  | 1.3        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 1.6               |                 | ug/L  | 1.6        | E        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 1.3               |                 | ug/L  | 1.3        |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AQ9MSD

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 3.9               |                 | ug/L  | 3.9        | P        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 3.9               |                 | ug/L  | 3.9        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AQ9MSD | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location:        | pH: 6              | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:             |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.62              |                 | ug/L  | 0.62       |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 0.61              |                 | ug/L  | 0.61       |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 0.59              |                 | ug/L  | 0.59       |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 1.3               |                 | ug/L  | 1.3        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 1.5               |                 | ug/L  | 1.5        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 1.2               |                 | ug/L  | 1.2        |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AR3

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-GW-01

pH: 6

Sample Date: 10/05/2020

Sample Time: 11:55:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR3           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-01 | pH: 6              | Sample Date: 10/05/2020 | Sample Time: 11:55:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR3           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-01 | pH: 6                 | Sample Date: 10/05/2020 | Sample Time: 11:55:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 2.1               | J               | ug/L  | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 3.9               | B               | ug/L  | 3.9        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR3           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-01 | pH: 6                        | Sample Date: 10/05/2020 | Sample Time: 11:55:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.030             | J               | ug/L  | 0.030      | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.11              | J               | ug/L  | 0.11       | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR3           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-01 | pH: 1.0                 | Sample Date: 10/05/2020 | Sample Time: 11:55:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.51              | U               | ug/L  | 0.51       |          | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 16                | U               | ug/L  | 16         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 2.7               |                 | ug/L  | 2.7        |          | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.14       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-xylene                            | Target       | 0.070             | J               | ug/L  | 0.070      | J        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Acetoacetic acid, 1-thio-, S-allyl | TIC          | 0.88              | JN              | ug/L  | 0.88       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AR8

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-GW-06

pH: 6

Sample Date: 10/05/2020

Sample Time: 08:55:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AR8           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 6              | Sample Date: 10/05/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.0074            | J               | ug/L  | 0.0074     | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.068             | J               | ug/L  | 0.068      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AR8           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 6                 | Sample Date: 10/05/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 2.0               | J               | ug/L  | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1-Heneicosanol             | TIC          | 6.5               | JN              | ug/L  | 6.5        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AR8           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 6                        | Sample Date: 10/05/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AR8           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 1.0                 | Sample Date: 10/05/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.76              | J+              | ug/L  | 0.76       |          | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.6               | U               | ug/L  | 5.6        |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.59              | U               | ug/L  | 0.59       |          | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AT4

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-GW-06

pH: 6

Sample Date: 10/05/2020

Sample Time: 12:00:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AT4           | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 6              | Sample Date: 10/05/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.0069            | J               | ug/L  | 0.0069     | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.065             | J               | ug/L  | 0.065      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AT4           | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 6                 | Sample Date: 10/05/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.6               | J               | ug/L  | 1.6        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name                    | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                   | TIC          | 6.3               | B               | ug/L  | 6.3        | B        | 1.0             | YES        | NV               |
| Cyclopentasiloxane, decamethyl- | TIC          | 2.1               | JN              | ug/L  | 2.1        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AT4           | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 6                        | Sample Date: 10/05/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AT4           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 1.0                 | Sample Date: 10/05/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.63              | U               | ug/L  | 0.63       |          | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 4.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.64              | U               | ug/L  | 0.64       |          | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AT7           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-08 | pH: 1.0                 | Sample Date: 10/05/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.71              |                 | ug/L  | 0.71       |          | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 8.6               |                 | ug/L  | 8.6        |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.21              | J               | ug/L  | 0.21       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.11              | J               | ug/L  | 0.11       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Hexanal                               | TIC          | 0.53              | JN              | ug/L  | 0.53       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name                    | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes                   | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| Acetic acid, 2-ethylhexyl ester | TIC          | 0.53              | JN              | ug/L  | 0.53       | JN       | 1.0             | YES        | NV               |
| Ethyl Acetate                   | TIC          | 2.8               | JN              | ug/L  | 2.8        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AT8           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-AB-01 | pH: 1.0                 | Sample Date: 10/05/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 18                |                 | ug/L  | 18         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | UJ              | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.55              |                 | ug/L  | 0.55       |          | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethyl Acetate                         | TIC          | 2.2               | JN              | ug/L  | 2.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes       | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| 1-Hexanol, 2-ethyl- | TIC          | 0.88              | JN              | ug/L  | 0.88       | JN       | 1.0             | YES        | NV               |
| Hexanal             | TIC          | 0.61              | JN              | ug/L  | 0.61       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AT9           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-AB-02 | pH: 1.0                 | Sample Date: 10/06/2020 | Sample Time: 09:15:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.13              | J               | ug/L  | 0.13       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                |                 | ug/L  | 11         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.27              | J               | ug/L  | 0.27       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Hexanal                               | TIC          | 0.58              | JN              | ug/L  | 0.58       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| Ethyl Acetate | TIC          | 3.3               | JN              | ug/L  | 3.3        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                |                         |                         |                       |
|--------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AW0           | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-TB-09 | pH: 1.0                 | Sample Date: 10/06/2020 | Sample Time: 07:30:00 |
| % Moisture:                    |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.14              | J               | ug/L  | 0.14       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 8.9               |                 | ug/L  | 8.9        |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.21              | J               | ug/L  | 0.21       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Hexanal                               | TIC          | 0.52              | JN              | ug/L  | 0.52       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name                    | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Ethyl Acetate                   | TIC          | 2.8               | JN              | ug/L  | 2.8        | JN       | 1.0             | YES        | NV               |
| Acetic acid, 2-ethylhexyl ester | TIC          | 0.60              | JN              | ug/L  | 0.60       | JN       | 1.0             | YES        | NV               |
| Total Alkanes                   | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

Sample Number: C0AW2

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-13-01

pH: 6

Sample Date: 10/06/2020

Sample Time: 12:00:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                   |                    |                         |                       |
|-----------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW2              | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13-01 | pH: 6              | Sample Date: 10/06/2020 | Sample Time: 12:00:00 |
| % Moisture:                       |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.017             | J               | ug/L  | 0.017      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                   |                       |                         |                       |
|-----------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW2              | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13-01 | pH: 6                 | Sample Date: 10/06/2020 | Sample Time: 12:00:00 |
| % Moisture:                       |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 6.6               | B               | ug/L  | 6.6        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                   |                              |                         |                       |
|-----------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW2              | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13-01 | pH: 6                        | Sample Date: 10/06/2020 | Sample Time: 12:00:00 |
| % Moisture:                       |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                                   |                         |                         |                       |
|-----------------------------------|-------------------------|-------------------------|-----------------------|
| Sample Number: C0AW2              | Method: Trace Volatiles | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13-01 | pH: 1.0                 | Sample Date: 10/06/2020 | Sample Time: 12:00:00 |
| % Moisture:                       |                         | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.12       | J        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.040      | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK62 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS62 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.047             | J               | ug/L  | 0.047      | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 0.053             |                 | ug/L  | 0.053      |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 0.10              |                 | ug/L  | 0.10       |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 0.10              |                 | ug/L  | 0.10       |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 0.076             | J               | ug/L  | 0.076      | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 0.051             |                 | ug/L  | 0.051      |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK22 | Method: Semivolatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                 | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 0   |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 11                | N               | ug/L  | 11         | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK23 | Method: Semivolatiles by SIM | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                        | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 0   |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK24 | Method: Semivolatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                 | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 0   |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 11                | N               | ug/L  | 11         | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK25 | Method: Semivolatiles by SIM | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                        | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 0   |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                         |               |              |
|-----------------------|-------------------------|---------------|--------------|
| Sample Number: VBLK81 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                     | Sample Date:  | Sample Time: |
| % Moisture:           |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 0.58              |                 | ug/L  | 0.58       |          | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| m,p-xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                       |                         |               |              |
|-----------------------|-------------------------|---------------|--------------|
| Sample Number: VBLK98 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                     | Sample Date:  | Sample Time: |
| % Moisture:           |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

|                        |                         |               |              |
|------------------------|-------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Trace Volatiles | Matrix: Water | MA Number:   |
| Sample Location:       | pH:                     | Sample Date:  | Sample Time: |
| % Moisture:            |                         | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 0.19              | J               | ug/L  | 0.19       | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| o-Xylene                              | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW14030/C0AR3

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 11/4/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# MC0AJ6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020013





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 2, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49088 MCOAJ6

### **Overview**

This data package consisted of eighteen (18) soil samples, including a field duplicate pair, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique and one (1) surface water sample analyzed for total metals by ICP-MS and for Hg.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS for the soil matrix.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 14, 2020.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Serial dilution, Internal standard relative intensities, and blank contamination issues required estimation of sample data.

### **Minor Problems**

Percent differences (%Ds) in the ICP-MS serial dilution analyses were outside the control limit (>10%) for nickel (Ni) in soil sample MCOAJ6 and for manganese (Mn) in water sample MCOAR2. Detected concentrations for these analytes are estimated in these samples and have been qualified "J".

Percent relative intensities for the internal standards listed below were outside the upper control limit (>125%) in the initial analyses of the samples shown. These sample were reanalyzed at two-fold (2X) dilutions with similar results. Associated analytes were reported from the initial analyses. Reported concentrations and quantitation limits are estimated and have been qualified "J" and "UJ", respectively.

| Internal Standard | Associated Analyte(s)                         | Sample(s)  |
|-------------------|---|--|
| Scandium          | beryllium (Be), cobalt (Co), Ni, vanadium (V) | MCOAJ6, MCOAJ7, MCOAK0, MCOAK6, MCOAL2, MCOAL5, MCOAL6, MCOAM1, MCOAM2, MCOAM5, MCOAN1, MCOAN7, MCOAPO, MCOAP1, MCOAP2 |
| Terbium           | barium (Ba), chromium (Cr)                    | MCOAM1   |
| Holmium           | antimony (Sb)                                 | MCOAM1   |
| Bismuth           | lead (Pb), thallium (Tl)                      | MCOAK6   |

Laboratory instrumentation reported negative values for Hg greater than the absolute value of the Method Detection Limit (MDL) in blank analyses associated with the soil samples. Detected concentrations which were less than the Contract Required Quantitation Limit (CRQL) were reported at the CRQL and qualified "UJ". Quantitation limits are estimated and qualified "UJ".

### **Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Target analytes Sb, arsenic (As), selenium (Se), and Tl have been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL in associated samples have been reported at the CRQL and qualified "U".

Matrix spike, laboratory duplicate, and Laboratory Control Sample analyses were within control limits.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)                                      | Analyte(s) | Dilution |
|--|------------|----------|
| MCOAK6, MCOAM2, MCOAPO, MCOAP1, MCOAP2, MCOAS2 | Fe         | 2X       |
| MCOAL6, MCOAP2, MCOAS2                         | Lead (Pb)  | 2X       |
| MCOAL7, MCOAP1                                 | Zinc (Zn)  | 2X       |
| MCOAL5, MCOAL6, MCOAL7, MCOAP2, MCOAQ1, MCOAS2 | Mn         | 2X       |
| MCOAN7, MCOAP1                                 | Mn         | 5X       |
| MCOAPO   | Mn         | 25X      |

Percent relative intensities (%RIs) for the internal standards listed below were outside the upper control limit (>125%) in the initial analyses of the samples shown. These sample were reanalyzed at two-fold (2X) dilutions with %RIs within control limits for these standards. Associated analytes shown were reported from the diluted analyses without qualification.

| Internal Standard | Associated Analyte(s) | Sample(s)      |
|-------------------|-----------------------|----------------|
| Scandium          | Be, Co, Ni, V         | MCOAQ1, MCOAS2 |
| Bismuth           | Pb                    | MCOAP1         |

Sample C0AQ1 reported percent solids less than 50% but greater than 30%. No data were qualified based on this finding.

Several samples were received without sample tags as noted by the laboratory. No data were qualified based on this finding.

Results reported for field duplicate pair MCOAP2/MCOAS2 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes except cadmium (Cd), copper (Cu), and Mg. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on samples MCOAJ6 and MCOAR2. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.



**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: LCS683 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.5              |                 | mg/kg | 39.5       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1060              |                 | mg/kg | 1060       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 21.8              |                 | mg/kg | 21.8       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 994               |                 | mg/kg | 994        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 970               |                 | mg/kg | 970        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 984               |                 | mg/kg | 984        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS710 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ6

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS711 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 36.5              |                 | ug/L  | 36.5       |          | 1               | YES        | S4VEM            |
| Antimony     | Spike        | 3.0               |                 | ug/L  | 3.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 19.2              |                 | ug/L  | 19.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 935               |                 | ug/L  | 935        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 3.6               |                 | ug/L  | 3.6        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 4.0               |                 | ug/L  | 4.0        |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 391               |                 | ug/L  | 391        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 1020              |                 | ug/L  | 1020       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 1020              |                 | ug/L  | 1020       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 10.2              |                 | ug/L  | 10.2       |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 976               |                 | ug/L  | 976        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 8.8               |                 | ug/L  | 8.8        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 3.9               |                 | ug/L  | 3.9        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                               | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.033      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13200             |                 | mg/kg | 13200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 821               |                 | mg/kg | 821        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23800             |                 | mg/kg | 23800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1800              |                 | mg/kg | 1800       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 604               |                 | mg/kg | 604        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 581               | U               | mg/kg | 581        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-21 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                          | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 7.9               |                 | mg/kg | 7.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.1              |                 | mg/kg | 43.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.3               | J               | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 24.5              |                 | mg/kg | 24.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 80.3              |                 | mg/kg | 80.3       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.3               | J               | mg/kg | 4.3        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.6              | J               | mg/kg | 16.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 31.1              |                 | mg/kg | 31.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6D | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:            |                               | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.044             | J               | mg/kg | 0.044      | J        | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:            |                           | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13500             |                 | mg/kg | 13500      |          | 1               | YES        | NV               |
| Calcium      | Target       | 840               |                 | mg/kg | 840        |          | 1               | YES        | NV               |
| Iron         | Target       | 24000             |                 | mg/kg | 24000      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1850              |                 | mg/kg | 1850       |          | 1               | YES        | NV               |
| Potassium    | Target       | 595               |                 | mg/kg | 595        |          | 1               | YES        | NV               |
| Sodium       | Target       | 581               | U               | mg/kg | 581        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:            |                          | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | NV               |
| Arsenic      | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | NV               |
| Barium       | Target       | 41.7              |                 | mg/kg | 41.7       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 15.1              |                 | mg/kg | 15.1       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 2.3               | J               | mg/kg | 2.3        |          | 1               | YES        | NV               |
| Copper       | Target       | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | NV               |
| Lead         | Target       | 24.2              |                 | mg/kg | 24.2       |          | 1               | YES        | NV               |
| Manganese    | Target       | 76.9              |                 | mg/kg | 76.9       |          | 1               | YES        | NV               |
| Nickel       | Target       | 4.4               | J               | mg/kg | 4.4        |          | 1               | YES        | NV               |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 16.5              | J               | mg/kg | 16.5       |          | 1               | YES        | NV               |
| Zinc         | Target       | 30.1              |                 | mg/kg | 30.1       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AJ6L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 83.6 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13900             |                 | mg/kg | 13900      |          | 5               | YES        | NV               |
| Calcium      | Target       | 880               | J               | mg/kg | 880        | J        | 5               | YES        | NV               |
| Iron         | Target       | 26200             |                 | mg/kg | 26200      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 1920              | J               | mg/kg | 1920       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 545               | J               | mg/kg | 545        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 2900              | U               | mg/kg | 2900       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AJ6L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 83.6 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 5.7               | U               | mg/kg | 5.7        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 7.6               |                 | mg/kg | 7.6        |          | 5               | YES        | NV               |
| Barium       | Target       | 44.9              |                 | mg/kg | 44.9       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 15.0              |                 | mg/kg | 15.0       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 3.7               |                 | mg/kg | 3.7        |          | 5               | YES        | NV               |
| Copper       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 5               | YES        | NV               |
| Lead         | Target       | 24.5              |                 | mg/kg | 24.5       |          | 5               | YES        | NV               |
| Manganese    | Target       | 78.6              |                 | mg/kg | 78.6       |          | 5               | YES        | NV               |
| Nickel       | Target       | 6.9               |                 | mg/kg | 6.9        | X*       | 5               | YES        | NV               |
| Selenium     | Target       | 14.2              | U               | mg/kg | 14.2       | U        | 5               | YES        | NV               |
| Silver       | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.1              |                 | mg/kg | 25.1       |          | 5               | YES        | NV               |
| Zinc         | Target       | 30.2              |                 | mg/kg | 30.2       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:            |                               | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.59              |                 | mg/kg | 0.59       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ6S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 09/28/2020 | Sample Time: 08:45:00 |
| % Moisture:            |                          | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 13.2              |                 | mg/kg | 13.2       |          | 1               | YES        | NV               |
| Barium       | Spike        | 318               |                 | mg/kg | 318        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 4.7               | J               | mg/kg | 4.7        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 43.7              |                 | mg/kg | 43.7       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 46.8              | J               | mg/kg | 46.8       |          | 1               | YES        | NV               |
| Copper       | Spike        | 45.5              |                 | mg/kg | 45.5       |          | 1               | YES        | NV               |
| Lead         | Spike        | 26.9              |                 | mg/kg | 26.9       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 145               |                 | mg/kg | 145        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 51.5              | J               | mg/kg | 51.5       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 13.0              |                 | mg/kg | 13.0       |          | 1               | YES        | NV               |
| Silver       | Spike        | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 60.2              | J               | mg/kg | 60.2       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 100               |                 | mg/kg | 100        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                               | % Solids: 91.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.011      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                           | % Solids: 91.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12200             |                 | mg/kg | 12200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 229               | J               | mg/kg | 229        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 22300             |                 | mg/kg | 22300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1940              |                 | mg/kg | 1940       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 585               |                 | mg/kg | 585        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 522               | U               | mg/kg | 522        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-22 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 11:15:00 |
| % Moisture:                    |                          | % Solids: 91.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.4               |                 | mg/kg | 3.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 29.0              |                 | mg/kg | 29.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.26              | J               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.3              |                 | mg/kg | 15.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.2               | J               | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 103               |                 | mg/kg | 103        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 3.9               | J               | mg/kg | 3.9        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 14.3              | J               | mg/kg | 14.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 20.9              |                 | mg/kg | 20.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                               | % Solids: 85.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK0          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                           | % Solids: 85.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6680              |                 | mg/kg | 6680       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 347               | J               | mg/kg | 347        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 8780              |                 | mg/kg | 8780       |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1720              |                 | mg/kg | 1720       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 420               | J               | mg/kg | 420        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 108               | J               | mg/kg | 108        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-25 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 09:55:00 |
| % Moisture:                    |                          | % Solids: 85.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.27       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 15.0              |                 | mg/kg | 15.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.089             | J               | mg/kg | 0.089      | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.7               | J               | mg/kg | 1.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 39.7              |                 | mg/kg | 39.7       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.0               | J               | mg/kg | 4.0        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.7               | J               | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 15.8              |                 | mg/kg | 15.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-31 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                               | % Solids: 85.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-31 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                           | % Solids: 85.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15200             |                 | mg/kg | 15200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 9250              |                 | mg/kg | 9250       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24200             |                 | mg/kg | 24200      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 6040              |                 | mg/kg | 6040       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5060              |                 | mg/kg | 5060       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 180               | J               | mg/kg | 180        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-31 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                          | % Solids: 85.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 152               |                 | mg/kg | 152        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 389               |                 | mg/kg | 389        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.1               | J               | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 157               |                 | mg/kg | 157        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 55.8              | J               | mg/kg | 55.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 146               |                 | mg/kg | 146        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 112               | J               | mg/kg | 112        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 27.7              |                 | mg/kg | 27.7       |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.53              | UJ              | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.5              | J               | mg/kg | 16.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 478               |                 | mg/kg | 478        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                               | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.042      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL2          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                           | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 16200             |                 | mg/kg | 16200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1220              |                 | mg/kg | 1220       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 28000             |                 | mg/kg | 28000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3040              |                 | mg/kg | 3040       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1290              |                 | mg/kg | 1290       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 592               | U               | mg/kg | 592        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-37 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 15:20:00 |
| % Moisture:                    |                          | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.3              |                 | mg/kg | 37.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.26              | J               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.5              |                 | mg/kg | 17.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.1               | J               | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.7              |                 | mg/kg | 11.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 18.2              |                 | mg/kg | 18.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 247               |                 | mg/kg | 247        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.7               | J               | mg/kg | 4.7        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.51              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 15.8              | J               | mg/kg | 15.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 40.8              |                 | mg/kg | 40.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                               | % Solids: 84.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              |                 | mg/kg | 0.11       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                           | % Solids: 84.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2920              |                 | mg/kg | 2920       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20400             |                 | mg/kg | 20400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3850              |                 | mg/kg | 3850       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2790              |                 | mg/kg | 2790       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 583               | U               | mg/kg | 583        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-40 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                          | % Solids: 84.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.73       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 69.9              |                 | mg/kg | 69.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.6              |                 | mg/kg | 13.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.8               | J               | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 27.7              |                 | mg/kg | 27.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 176               |                 | mg/kg | 176        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 400               |                 | mg/kg | 400        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.9               | J               | mg/kg | 7.9        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.8              | J               | mg/kg | 16.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 105               |                 | mg/kg | 105        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                               | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ6

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                           | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11100             |                 | mg/kg | 11100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2820              |                 | mg/kg | 2820       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 28200             |                 | mg/kg | 28200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2650              |                 | mg/kg | 2650       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1270              |                 | mg/kg | 1270       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 570               | U               | mg/kg | 570        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-41 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                          | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 88.3              |                 | mg/kg | 88.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.29              | J               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.78              |                 | mg/kg | 0.78       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.1              |                 | mg/kg | 16.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.0               | J               | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 43.1              |                 | mg/kg | 43.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 250               |                 | mg/kg | 250        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 343               |                 | mg/kg | 343        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.6               | J               | mg/kg | 7.6        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.3               | U               | mg/kg | 2.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.45              | U               | mg/kg | 0.45       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 14.8              | J               | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 171               |                 | mg/kg | 171        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-42 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 12:15:00 |
| % Moisture:                    |                               | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              |                 | mg/kg | 0.11       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AL7

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-42

pH:

Sample Date: 09/28/2020

Sample Time: 12:15:00

% Moisture:

% Solids: 80.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7290              |                 | mg/kg | 7290       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2210              |                 | mg/kg | 2210       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23400             |                 | mg/kg | 23400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1800              |                 | mg/kg | 1800       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1380              |                 | mg/kg | 1380       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 589               | U               | mg/kg | 589        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-42 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 12:15:00 |
| % Moisture:                    |                          | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.7               |                 | mg/kg | 1.7        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 74.1              |                 | mg/kg | 74.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.80              |                 | mg/kg | 0.80       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.0              |                 | mg/kg | 15.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 289               |                 | mg/kg | 289        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 237               |                 | mg/kg | 237        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 325               |                 | mg/kg | 325        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 14.5              |                 | mg/kg | 14.5       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 15.6              |                 | mg/kg | 15.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 628               |                 | mg/kg | 628        | D        | 2               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM1          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-21 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AM1      Method: Metals by ICP-AES      Matrix: Soil      MA Number:  
Sample Location: NL-2020-SB-21      pH:      Sample Date: 09/28/2020      Sample Time: 09:00:00  
% Moisture:      % Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14700             |                 | mg/kg | 14700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 131               | J               | mg/kg | 131        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 34800             |                 | mg/kg | 34800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5600              |                 | mg/kg | 5600       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 8170              |                 | mg/kg | 8170       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 163               | J               | mg/kg | 163        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM1          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-21 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | UJ              | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.57              |                 | mg/kg | 0.57       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.5              | J               | mg/kg | 42.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.38              | J               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.5              | J               | mg/kg | 11.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.4               | J               | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 46.9              |                 | mg/kg | 46.9       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.4               | J               | mg/kg | 5.4        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.53              | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 10.7              | J               | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 53.1              |                 | mg/kg | 53.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                               | % Solids: 87.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AM2      Method: Metals by ICP-AES      Matrix: Soil      MA Number:  
Sample Location: NL-2020-SB-22      pH:      Sample Date: 09/28/2020      Sample Time: 11:30:00  
% Moisture:      % Solids: 87.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 32500             |                 | mg/kg | 32500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 199               | J               | mg/kg | 199        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 43300             |                 | mg/kg | 43300      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 9170              |                 | mg/kg | 9170       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 10800             |                 | mg/kg | 10800      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 377               | J               | mg/kg | 377        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-22 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 11:30:00 |
| % Moisture:                    |                          | % Solids: 87.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 65.1              |                 | mg/kg | 65.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.9              |                 | mg/kg | 26.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.9               | J               | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 20.2              |                 | mg/kg | 20.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 116               |                 | mg/kg | 116        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 3.4               | J               | mg/kg | 3.4        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.52              | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.8              | J               | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 49.9              |                 | mg/kg | 49.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                               | % Solids: 88.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                           | % Solids: 88.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 18100             |                 | mg/kg | 18100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 233               | J               | mg/kg | 233        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 28400             |                 | mg/kg | 28400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 6890              |                 | mg/kg | 6890       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 8890              |                 | mg/kg | 8890       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 286               | J               | mg/kg | 286        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-25 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 10:05:00 |
| % Moisture:                    |                          | % Solids: 88.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.96              | U               | mg/kg | 0.96       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.5              |                 | mg/kg | 54.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.27              | J               | mg/kg | 0.27       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.080             | J               | mg/kg | 0.080      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.9              |                 | mg/kg | 16.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               | J               | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.9              |                 | mg/kg | 18.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 130               |                 | mg/kg | 130        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.6               | J               | mg/kg | 9.6        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 2.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.48              | U               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 13.4              | J               | mg/kg | 13.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 43.1              |                 | mg/kg | 43.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN1          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                               | % Solids: 86.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.097      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AN1

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-31

pH:

Sample Date: 09/28/2020

Sample Time: 12:45:00

% Moisture:

% Solids: 86.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 16100             |                 | mg/kg | 16100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2490              |                 | mg/kg | 2490       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 29900             |                 | mg/kg | 29900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4430              |                 | mg/kg | 4430       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 4430              |                 | mg/kg | 4430       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 154               | J               | mg/kg | 154        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN1          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-31 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                          | % Solids: 86.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.95              | U               | mg/kg | 0.95       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 133               |                 | mg/kg | 133        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.24              | J               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.37              | J               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.7               | J               | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 36.4              |                 | mg/kg | 36.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 162               |                 | mg/kg | 162        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 161               |                 | mg/kg | 161        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.5               | J               | mg/kg | 5.5        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 2.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.47              | U               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 15.9              | J               | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 115               |                 | mg/kg | 115        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                               | % Solids: 87.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | UJ              | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                           | % Solids: 87.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13900             |                 | mg/kg | 13900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 159               | J               | mg/kg | 159        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 33500             |                 | mg/kg | 33500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5060              |                 | mg/kg | 5060       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 6040              |                 | mg/kg | 6040       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 115               | J               | mg/kg | 115        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-37 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                          | % Solids: 87.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.96              | U               | mg/kg | 0.96       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.58              |                 | mg/kg | 0.58       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 72.0              |                 | mg/kg | 72.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.36              | J               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.099             | J               | mg/kg | 0.099      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.8               | J               | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.8              |                 | mg/kg | 10.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 800               |                 | mg/kg | 800        | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 6.8               | J               | mg/kg | 6.8        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 2.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.48              | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 7.1               | J               | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 46.6              |                 | mg/kg | 46.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-40 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 10:00:00 |
| % Moisture:                    |                               | % Solids: 88.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.013      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AP0

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-40

pH:

Sample Date: 09/28/2020

Sample Time: 10:00:00

% Moisture:

% Solids: 88.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7490              |                 | mg/kg | 7490       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 746               |                 | mg/kg | 746        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 41400             |                 | mg/kg | 41400      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 1010              |                 | mg/kg | 1010       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 326               | J               | mg/kg | 326        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 561               | U               | mg/kg | 561        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-40 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 10:00:00 |
| % Moisture:                    |                          | % Solids: 88.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.88              | U               | mg/kg | 0.88       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 435               |                 | mg/kg | 435        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.91              | J               | mg/kg | 0.91       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 19.3              | J               | mg/kg | 19.3       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 15.8              |                 | mg/kg | 15.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 4810              |                 | mg/kg | 4810       | D        | 25              | YES        | S4VEM            |
| Nickel       | Target       | 13.8              | J               | mg/kg | 13.8       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.2               | U               | mg/kg | 2.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.44              | U               | mg/kg | 0.44       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.44              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.6              | J               | mg/kg | 18.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 14.9              |                 | mg/kg | 14.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP1          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                               | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.79              |                 | mg/kg | 0.79       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ6

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP1          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                           | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11100             |                 | mg/kg | 11100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 6320              |                 | mg/kg | 6320       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 49500             |                 | mg/kg | 49500      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 3520              |                 | mg/kg | 3520       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2340              |                 | mg/kg | 2340       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 140               | J               | mg/kg | 140        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP1          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-41 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                          | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 255               |                 | mg/kg | 255        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.29              | J               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 39.0              |                 | mg/kg | 39.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.4               | J               | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 380               |                 | mg/kg | 380        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 671               |                 | mg/kg | 671        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 280               |                 | mg/kg | 280        | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 19.9              | J               | mg/kg | 19.9       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.49              | U               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 19.4              | J               | mg/kg | 19.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 665               |                 | mg/kg | 665        | D        | 2               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                               | % Solids: 87.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.28              |                 | mg/kg | 0.28       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP2          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                           | % Solids: 87.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9750              |                 | mg/kg | 9750       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5760              |                 | mg/kg | 5760       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 36400             |                 | mg/kg | 36400      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 3800              |                 | mg/kg | 3800       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1560              |                 | mg/kg | 1560       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 91.0              | J               | mg/kg | 91.0       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                          | % Solids: 87.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.99              | U               | mg/kg | 0.82       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 186               |                 | mg/kg | 186        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.2               | J               | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 343               |                 | mg/kg | 343        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 455               |                 | mg/kg | 455        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 369               |                 | mg/kg | 369        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 25.1              | J               | mg/kg | 25.1       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.27              | J               | mg/kg | 0.27       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 14.7              | J               | mg/kg | 14.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 342               |                 | mg/kg | 342        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ1          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                               | % Solids: 42.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.26              |                 | mg/kg | 0.26       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ6

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ1          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                           | % Solids: 42.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15600             |                 | mg/kg | 15600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 9930              |                 | mg/kg | 9930       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 33100             |                 | mg/kg | 33100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 7500              |                 | mg/kg | 7500       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1860              |                 | mg/kg | 1860       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 193               | J               | mg/kg | 193        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ6

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ1          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-18 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                          | % Solids: 42.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.8               | U               | mg/kg | 1.2        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 125               |                 | mg/kg | 125        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.76              | J               | mg/kg | 0.76       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 30.8              |                 | mg/kg | 30.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.2              |                 | mg/kg | 10.2       | D        | 2               | YES        | S4VEM            |
| Copper       | Target       | 62.3              |                 | mg/kg | 62.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 94.5              |                 | mg/kg | 94.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 727               |                 | mg/kg | 727        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 21.3              |                 | mg/kg | 21.3       | DX*      | 2               | YES        | S4VEM            |
| Selenium     | Target       | 4.6               | U               | mg/kg | 1.2        | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 28.9              |                 | mg/kg | 28.9       | D        | 2               | YES        | S4VEM            |
| Zinc         | Target       | 257               |                 | mg/kg | 257        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR2          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-18 | pH: 2.                        | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.73              |                 | ug/L  | 0.73       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR2          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-18 | pH: 2.                   | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 155               |                 | ug/L  | 155        |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 0.91       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 60.2              |                 | ug/L  | 60.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 26000             |                 | ug/L  | 26000      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 0.98              | J               | ug/L  | 0.98       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.33              | J               | ug/L  | 0.33       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.8               |                 | ug/L  | 2.8        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 669               |                 | ug/L  | 669        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 9920              |                 | ug/L  | 9920       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 111               | J               | ug/L  | 111        | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.3               |                 | ug/L  | 1.3        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3630              |                 | ug/L  | 3630       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 30600             |                 | ug/L  | 30600      |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 0.99              | J               | ug/L  | 0.99       | J        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 8.1               |                 | ug/L  | 8.1        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AR2D

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location:

pH: 2.

Sample Date: 09/28/2020

Sample Time: 15:00:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.73              |                 | mg/L  | 0.73       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR2D | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 151               |                 | mg/L  | 151        |          | 1               | YES        | NV               |
| Antimony     | Target       | 0.47              | J               | mg/L  | 0.47       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 0.85              | J               | mg/L  | 0.85       | J        | 1               | YES        | NV               |
| Barium       | Target       | 59.2              |                 | mg/L  | 59.2       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Cadmium      | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Calcium      | Target       | 25900             |                 | mg/L  | 25900      |          | 1               | YES        | NV               |
| Chromium     | Target       | 0.97              | J               | mg/L  | 0.97       | J        | 1               | YES        | NV               |
| Cobalt       | Target       | 0.33              | J               | mg/L  | 0.33       | J        | 1               | YES        | NV               |
| Copper       | Target       | 2.7               |                 | mg/L  | 2.7        |          | 1               | YES        | NV               |
| Iron         | Target       | 660               |                 | mg/L  | 660        |          | 1               | YES        | NV               |
| Lead         | Target       | 1.9               |                 | mg/L  | 1.9        |          | 1               | YES        | NV               |
| Magnesium    | Target       | 9900              |                 | mg/L  | 9900       |          | 1               | YES        | NV               |
| Manganese    | Target       | 106               |                 | mg/L  | 106        |          | 1               | YES        | NV               |
| Nickel       | Target       | 1.3               |                 | mg/L  | 1.3        |          | 1               | YES        | NV               |
| Potassium    | Target       | 3620              |                 | mg/L  | 3620       |          | 1               | YES        | NV               |
| Selenium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 1               | YES        | NV               |
| Silver       | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Sodium       | Target       | 30100             |                 | mg/L  | 30100      |          | 1               | YES        | NV               |
| Thallium     | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 1.0               | J               | mg/L  | 1.0        | J        | 1               | YES        | NV               |
| Zinc         | Target       | 7.8               |                 | mg/L  | 7.8        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                        |                          |               |              |
|------------------------|--------------------------|---------------|--------------|
| Sample Number: MC0AR2L | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                   | Sample Date:  | Sample Time: |
| % Moisture:            |                          | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 141               |                 | mg/L  | 141        |          | 5               | YES        | NV               |
| Antimony     | Target       | 2.2               | J               | mg/L  | 2.2        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 1.9               | J               | mg/L  | 1.9        | J        | 5               | YES        | NV               |
| Barium       | Target       | 60.4              |                 | mg/L  | 60.4       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Calcium      | Target       | 28200             |                 | mg/L  | 28200      |          | 5               | YES        | NV               |
| Chromium     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Cobalt       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Copper       | Target       | 2.8               | J               | mg/L  | 2.8        | J        | 5               | YES        | NV               |
| Iron         | Target       | 679               | J               | mg/L  | 679        | J        | 5               | YES        | NV               |
| Lead         | Target       | 1.9               | J               | mg/L  | 1.9        | J        | 5               | YES        | NV               |
| Magnesium    | Target       | 10900             |                 | mg/L  | 10900      |          | 5               | YES        | NV               |
| Manganese    | Target       | 98.7              |                 | mg/L  | 98.7       | X*       | 5               | YES        | NV               |
| Nickel       | Target       | 1.8               | J               | mg/L  | 1.8        | J        | 5               | YES        | NV               |
| Potassium    | Target       | 3920              |                 | mg/L  | 3920       |          | 5               | YES        | NV               |
| Selenium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Silver       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Sodium       | Target       | 30100             |                 | mg/L  | 30100      |          | 5               | YES        | NV               |
| Thallium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Zinc         | Target       | 8.1               | J               | mg/L  | 8.1        | J        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

Sample Number: MC0AR2S

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location:

pH: 2.

Sample Date: 09/28/2020

Sample Time: 15:00:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 1.6               |                 | mg/L  | 1.6        |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ6

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR2S | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 09/28/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 93.6              |                 | mg/L  | 93.6       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 38.2              |                 | mg/L  | 38.2       |          | 1               | YES        | NV               |
| Barium       | Spike        | 2080              |                 | mg/L  | 2080       |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 50.2              |                 | mg/L  | 50.2       |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 48.5              |                 | mg/L  | 48.5       |          | 1               | YES        | NV               |
| Chromium     | Spike        | 200               |                 | mg/L  | 200        |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 492               |                 | mg/L  | 492        |          | 1               | YES        | NV               |
| Copper       | Spike        | 253               |                 | mg/L  | 253        |          | 1               | YES        | NV               |
| Lead         | Spike        | 23.0              |                 | mg/L  | 23.0       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 580               |                 | mg/L  | 580        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 511               |                 | mg/L  | 511        |          | 1               | YES        | NV               |
| Selenium     | Spike        | 92.7              |                 | mg/L  | 92.7       |          | 1               | YES        | NV               |
| Silver       | Spike        | 42.2              |                 | mg/L  | 42.2       |          | 1               | YES        | NV               |
| Thallium     | Spike        | 51.9              |                 | mg/L  | 51.9       |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 496               |                 | mg/L  | 496        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 514               |                 | mg/L  | 514        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                           | Sample Date: 09/28/2020 | Sample Time: 13:30:00 |
| % Moisture:                    |                               | % Solids: 87.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.18              |                 | mg/kg | 0.18       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS2          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                       | Sample Date: 09/28/2020 | Sample Time: 13:30:00 |
| % Moisture:                    |                           | % Solids: 87.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4720              |                 | mg/kg | 4720       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 35300             |                 | mg/kg | 35300      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 2850              |                 | mg/kg | 2850       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1450              |                 | mg/kg | 1450       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 389               | J               | mg/kg | 389        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-42 | pH:                      | Sample Date: 09/28/2020 | Sample Time: 13:30:00 |
| % Moisture:                    |                          | % Solids: 87.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.99       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 209               |                 | mg/kg | 209        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 0.69              |                 | mg/kg | 0.69       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.2              |                 | mg/kg | 17.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.9               |                 | mg/kg | 6.9        | D        | 2               | YES        | S4VEM            |
| Copper       | Target       | 131               |                 | mg/kg | 131        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 385               |                 | mg/kg | 385        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 318               |                 | mg/kg | 318        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 32.7              |                 | mg/kg | 32.7       | DX*      | 2               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.23              | J               | mg/kg | 0.23       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.0              |                 | mg/kg | 16.0       | D        | 2               | YES        | S4VEM            |
| Zinc         | Target       | 312               |                 | mg/kg | 312        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS683 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS710 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL25 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBW711 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | ug/L  | 20.0       | U        | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBWL29 | Method: Mercury by Cold Vapor | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ6

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 11/9/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# MC0AJ8 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020041





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 6, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49088 MCOAJ8

### **Overview**

This data package consisted of twelve (12) soil samples, including two (2) field duplicate pairs, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 20, 2020.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. A serial dilution issue and blank contamination required qualification of results.

### **Minor Problem**

The percent difference (%D) in the ICP-MS serial dilution analysis was outside the control limit (>10%) for vanadium (V) in sample MCOAJ8. The detected concentration for V is estimated in this sample and has been qualified "J".



**Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb) and cadmium (Cd) have been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than or equal to the CRQL in associated samples have been reported at the CRQL and qualified "U".

Matrix spike, laboratory duplicate, and Laboratory Control Sample analyses were within control limits.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)                      | Analyte        | Dilution |
|--------------------------------|----------------|----------|
| MCOAL1, MCOAM3, MCOAM8, MCOAN5 | Fe             | 2X       |
| MCOAK3, MCOAL1, MCOAN6         | manganese (Mn) | 2X       |

The percent relative intensity (%RI) for internal standard bismuth was outside the upper control limit (>125%) in the initial analyses of sample MCOAL0. This sample was reanalyzed at a two-fold (2X) dilution with the %RI within control limits for this standard. Associated analyte lead was reported from the diluted analysis without qualification. Associated analyte thallium was reported from the diluted analysis and qualified as estimated as it was below the elevated CRQL.

The %RIs for internal standard scandium were outside the upper control limit (>125%) in the initial analyses of all samples. These sample were reanalyzed at two-fold (2X) dilutions with similar results for samples MCOAJ8, MCOAK3, MCOAM3, MCOAM8, MCOAN5, MCOAN6 and MCOAS9 and %RIs within control limits for samples MCOAK8, MCOAL0, MCOAL1, MCOAN3 and MCOAS8. No reported target analytes were associated with this internal standard. No data were qualified.

Results reported for field duplicate pair MCOAS8/MCOAN3 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes except barium (Ba), chromium (Cr), cobalt (Co), copper (Cu), Fe, Mn, nickel (Ni) and zinc (Zn). No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOAS9/MCOAK8 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on sample MCOAJ8. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: LCS689

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 36.3              |                 | mg/kg | 36.3       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1010              |                 | mg/kg | 1010       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 20.7              |                 | mg/kg | 20.7       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 936               |                 | mg/kg | 936        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 914               |                 | mg/kg | 914        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 938               |                 | mg/kg | 938        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS714 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.7               |                 | mg/kg | 1.7        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.94              |                 | mg/kg | 0.94       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-23 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                               | % Solids: 78.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AJ8

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-23

pH:

Sample Date: 09/30/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13400             |                 | mg/kg | 13400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 474               | J               | mg/kg | 474        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 25400             |                 | mg/kg | 25400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1690              |                 | mg/kg | 1690       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 476               | J               | mg/kg | 476        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 609               | U               | mg/kg | 609        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-23 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                          | % Solids: 78.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 25.9              |                 | mg/kg | 25.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.2              |                 | mg/kg | 18.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.2              |                 | mg/kg | 11.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 136               |                 | mg/kg | 136        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.1              | J               | mg/kg | 41.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 28.5              |                 | mg/kg | 28.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AJ8D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/30/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AJ8D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/30/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13400             |                 | mg/kg | 13400      |          | 1               | YES        | NV               |
| Calcium      | Target       | 475               | J               | mg/kg | 475        | J        | 1               | YES        | NV               |
| Iron         | Target       | 25400             |                 | mg/kg | 25400      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1690              |                 | mg/kg | 1690       |          | 1               | YES        | NV               |
| Potassium    | Target       | 464               | J               | mg/kg | 464        | J        | 1               | YES        | NV               |
| Sodium       | Target       | 609               | U               | mg/kg | 609        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ8D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:            |                          | % Solids: 78.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | NV               |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | NV               |
| Barium       | Target       | 25.5              |                 | mg/kg | 25.5       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.58              | J               | mg/kg | 0.58       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | NV               |
| Chromium     | Target       | 17.6              |                 | mg/kg | 17.6       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | NV               |
| Copper       | Target       | 10.9              |                 | mg/kg | 10.9       |          | 1               | YES        | NV               |
| Lead         | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | NV               |
| Manganese    | Target       | 130               |                 | mg/kg | 130        |          | 1               | YES        | NV               |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 40.1              |                 | mg/kg | 40.1       |          | 1               | YES        | NV               |
| Zinc         | Target       | 27.4              |                 | mg/kg | 27.4       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AJ8L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 78.9 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13600             |                 | mg/kg | 13600      |          | 5               | YES        | NV               |
| Calcium      | Target       | 492               | J               | mg/kg | 492        | J        | 5               | YES        | NV               |
| Iron         | Target       | 27300             |                 | mg/kg | 27300      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 1740              | J               | mg/kg | 1740       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 3050              | U               | mg/kg | 3050       | U        | 5               | YES        | NV               |
| Sodium       | Target       | 3050              | U               | mg/kg | 3050       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AJ8L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 78.9 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 6.0               | U               | mg/kg | 6.0        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 2.5               | J               | mg/kg | 2.5        | J        | 5               | YES        | NV               |
| Barium       | Target       | 27.6              | J               | mg/kg | 27.6       | J        | 5               | YES        | NV               |
| Beryllium    | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 17.9              |                 | mg/kg | 17.9       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 5               | YES        | NV               |
| Copper       | Target       | 11.1              |                 | mg/kg | 11.1       |          | 5               | YES        | NV               |
| Lead         | Target       | 10.7              |                 | mg/kg | 10.7       |          | 5               | YES        | NV               |
| Manganese    | Target       | 129               |                 | mg/kg | 129        |          | 5               | YES        | NV               |
| Nickel       | Target       | 9.5               |                 | mg/kg | 9.5        |          | 5               | YES        | NV               |
| Selenium     | Target       | 14.9              | U               | mg/kg | 14.9       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 34.3              |                 | mg/kg | 34.3       | X*       | 5               | YES        | NV               |
| Zinc         | Target       | 28.6              |                 | mg/kg | 28.6       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AJ8S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/30/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ8S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 09/30/2020 | Sample Time: 08:20:00 |
| % Moisture:            |                          | % Solids: 78.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.7              |                 | mg/kg | 11.7       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 7.2               |                 | mg/kg | 7.2        |          | 1               | YES        | NV               |
| Barium       | Spike        | 256               |                 | mg/kg | 256        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 43.3              |                 | mg/kg | 43.3       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 64.9              |                 | mg/kg | 64.9       |          | 1               | YES        | NV               |
| Copper       | Spike        | 40.1              |                 | mg/kg | 40.1       |          | 1               | YES        | NV               |
| Lead         | Spike        | 12.7              |                 | mg/kg | 12.7       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 189               |                 | mg/kg | 189        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 69.9              |                 | mg/kg | 69.9       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 11.2              |                 | mg/kg | 11.2       |          | 1               | YES        | NV               |
| Silver       | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 100               |                 | mg/kg | 100        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 88.2              |                 | mg/kg | 88.2       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK3          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                               | % Solids: 89.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              |                 | mg/kg | 0.11       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK3          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                           | % Solids: 89.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15600             |                 | mg/kg | 15600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3740              |                 | mg/kg | 3740       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 26200             |                 | mg/kg | 26200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1600              |                 | mg/kg | 1600       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 950               |                 | mg/kg | 950        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 180               | J               | mg/kg | 180        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-28 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 09:30:00 |
| % Moisture:                    |                          | % Solids: 89.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 67.9              |                 | mg/kg | 67.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.73              |                 | mg/kg | 0.73       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.53              | U               | mg/kg | 0.22       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 31.1              |                 | mg/kg | 31.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.8               |                 | mg/kg | 8.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 27.5              |                 | mg/kg | 27.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 65.0              |                 | mg/kg | 65.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 276               |                 | mg/kg | 276        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 40.4              |                 | mg/kg | 40.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 82.7              |                 | mg/kg | 82.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                               | % Solids: 90.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.046      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK8          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                           | % Solids: 90.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14400             |                 | mg/kg | 14400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1380              |                 | mg/kg | 1380       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24300             |                 | mg/kg | 24300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3600              |                 | mg/kg | 3600       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2770              |                 | mg/kg | 2770       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 91.2              | J               | mg/kg | 91.2       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 12:30:00 |
| % Moisture:                    |                          | % Solids: 90.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 55.1              |                 | mg/kg | 55.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.57              |                 | mg/kg | 0.57       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.52              | U               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.6              |                 | mg/kg | 15.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.9              |                 | mg/kg | 13.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 31.3              |                 | mg/kg | 31.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 219               |                 | mg/kg | 219        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.5              |                 | mg/kg | 30.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 43.2              |                 | mg/kg | 43.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                               | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.40              |                 | mg/kg | 0.40       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL0          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                           | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12400             |                 | mg/kg | 12400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1790              |                 | mg/kg | 1790       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 30800             |                 | mg/kg | 30800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4170              |                 | mg/kg | 4170       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 4440              |                 | mg/kg | 4440       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 149               | J               | mg/kg | 149        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-35 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                          | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               |                 | mg/kg | 1.2        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 166               |                 | mg/kg | 166        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              |                 | mg/kg | 0.56       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 80.5              |                 | mg/kg | 80.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.0               |                 | mg/kg | 8.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 110               |                 | mg/kg | 110        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 384               |                 | mg/kg | 384        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 206               |                 | mg/kg | 206        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 30.2              |                 | mg/kg | 30.2       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.30              | J               | mg/kg | 0.30       | JD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 39.8              |                 | mg/kg | 39.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 328               |                 | mg/kg | 328        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL1          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                               | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              |                 | mg/kg | 0.20       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AL1

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-36

pH:

Sample Date: 09/30/2020

Sample Time: 11:00:00

% Moisture:

% Solids: 83.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11300             |                 | mg/kg | 11300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3290              |                 | mg/kg | 3290       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 37400             |                 | mg/kg | 37400      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 3150              |                 | mg/kg | 3150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2110              |                 | mg/kg | 2110       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 590               | U               | mg/kg | 590        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL1          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                          | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.35       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 84.6              |                 | mg/kg | 84.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.56              | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.5              |                 | mg/kg | 25.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 51.2              |                 | mg/kg | 51.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 73.1              |                 | mg/kg | 73.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 508               |                 | mg/kg | 508        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 19.3              |                 | mg/kg | 19.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.1              |                 | mg/kg | 32.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 133               |                 | mg/kg | 133        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM3          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                               | % Solids: 95.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.095             | U               | mg/kg | 0.095      | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM3          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 95.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20600             |                 | mg/kg | 20600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 395               | J               | mg/kg | 395        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 44300             |                 | mg/kg | 44300      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 10200             |                 | mg/kg | 10200      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 13100             |                 | mg/kg | 13100      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 435               | J               | mg/kg | 435        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-23 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                          | % Solids: 95.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.91              | U               | mg/kg | 0.91       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 132               |                 | mg/kg | 132        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.70              |                 | mg/kg | 0.70       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.45              | U               | mg/kg | 0.061      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 24.0              |                 | mg/kg | 24.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.4              |                 | mg/kg | 17.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 121               |                 | mg/kg | 121        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.1              |                 | mg/kg | 11.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.3               | U               | mg/kg | 2.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.45              | U               | mg/kg | 0.45       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              |                 | mg/kg | 0.57       |          | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 40.7              |                 | mg/kg | 40.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 59.4              |                 | mg/kg | 59.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-28 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:                    |                               | % Solids: 93.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AM8

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-28

pH:

Sample Date: 09/30/2020

Sample Time: 09:40:00

% Moisture:

% Solids: 93.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 23000             |                 | mg/kg | 23000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 337               | J               | mg/kg | 337        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 42400             |                 | mg/kg | 42400      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 11800             |                 | mg/kg | 11800      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 14300             |                 | mg/kg | 14300      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 492               | J               | mg/kg | 492        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-28 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 09:40:00 |
| % Moisture:                    |                          | % Solids: 93.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.93              | U               | mg/kg | 0.93       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.68              |                 | mg/kg | 0.68       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 110               |                 | mg/kg | 110        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.46              | U               | mg/kg | 0.46       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 35.4              |                 | mg/kg | 35.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.7              |                 | mg/kg | 14.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 141               |                 | mg/kg | 141        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.3               | U               | mg/kg | 2.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.46              | U               | mg/kg | 0.46       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              |                 | mg/kg | 0.59       |          | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 55.8              |                 | mg/kg | 55.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 76.5              |                 | mg/kg | 76.5       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN3          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                               | % Solids: 87.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN3          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                           | % Solids: 87.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 554               |                 | mg/kg | 554        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 10900             |                 | mg/kg | 10900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1970              |                 | mg/kg | 1970       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 313               | J               | mg/kg | 313        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 140               | J               | mg/kg | 140        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 12:50:00 |
| % Moisture:                    |                          | % Solids: 87.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 75.1              |                 | mg/kg | 75.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.3              |                 | mg/kg | 17.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 46.2              |                 | mg/kg | 46.2       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 11.5              |                 | mg/kg | 11.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 25.7              |                 | mg/kg | 25.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                               | % Solids: 93.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.099             | U               | mg/kg | 0.099      | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                           | % Solids: 93.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 22500             |                 | mg/kg | 22500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 812               |                 | mg/kg | 812        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 40900             |                 | mg/kg | 40900      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 14100             |                 | mg/kg | 14100      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 449               | J               | mg/kg | 449        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-35 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                          | % Solids: 93.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.95              | U               | mg/kg | 0.95       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.58              |                 | mg/kg | 0.58       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 80.4              |                 | mg/kg | 80.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              |                 | mg/kg | 0.53       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 29.6              |                 | mg/kg | 29.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.6              |                 | mg/kg | 14.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 91.0              |                 | mg/kg | 91.0       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 16.8              |                 | mg/kg | 16.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 2.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              |                 | mg/kg | 0.61       |          | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 44.6              |                 | mg/kg | 44.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 76.0              |                 | mg/kg | 76.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                               | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.27              |                 | mg/kg | 0.27       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                       | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                           | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 17300             |                 | mg/kg | 17300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1820              |                 | mg/kg | 1820       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 31100             |                 | mg/kg | 31100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4260              |                 | mg/kg | 4260       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2620              |                 | mg/kg | 2620       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 145               | J               | mg/kg | 145        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-36 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 11:10:00 |
| % Moisture:                    |                          | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 88.8              |                 | mg/kg | 88.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.59              |                 | mg/kg | 0.59       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.56              | U               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 37.4              |                 | mg/kg | 37.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.2              |                 | mg/kg | 17.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 59.7              |                 | mg/kg | 59.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 344               |                 | mg/kg | 344        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 19.1              |                 | mg/kg | 19.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 50.2              |                 | mg/kg | 50.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 60.2              |                 | mg/kg | 60.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                               | % Solids: 89.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.063      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AS8

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-33

pH:

Sample Date: 09/30/2020

Sample Time: 13:00:00

% Moisture:

% Solids: 89.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9220              |                 | mg/kg | 9220       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 441               | J               | mg/kg | 441        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 14100             |                 | mg/kg | 14100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1890              |                 | mg/kg | 1890       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 341               | J               | mg/kg | 341        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 135               | J               | mg/kg | 135        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-33 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 13:00:00 |
| % Moisture:                    |                          | % Solids: 89.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.53              |                 | mg/kg | 0.53       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 47.5              |                 | mg/kg | 47.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.31              | J               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 27.6              |                 | mg/kg | 27.6       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 9.3               |                 | mg/kg | 9.3        | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 18.5              |                 | mg/kg | 18.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                           | Sample Date: 09/30/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                               | % Solids: 88.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.046      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

Sample Number: MC0AS9

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-33

pH:

Sample Date: 09/30/2020

Sample Time: 12:45:00

% Moisture:

% Solids: 88.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15700             |                 | mg/kg | 15700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1430              |                 | mg/kg | 1430       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 26900             |                 | mg/kg | 26900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4100              |                 | mg/kg | 4100       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3210              |                 | mg/kg | 3210       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 102               | J               | mg/kg | 102        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-33 | pH:                      | Sample Date: 09/30/2020 | Sample Time: 12:45:00 |
| % Moisture:                    |                          | % Solids: 88.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 65.4              |                 | mg/kg | 65.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.51              | U               | mg/kg | 0.090      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.3              |                 | mg/kg | 17.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.1              |                 | mg/kg | 15.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 30.8              |                 | mg/kg | 30.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 218               |                 | mg/kg | 218        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.5              |                 | mg/kg | 11.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.8              |                 | mg/kg | 32.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 45.2              |                 | mg/kg | 45.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ8

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS689 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS714 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | -0.087            | J               | mg/kg | -0.087     | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL27 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ8

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 11/9/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# MC0AJ9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020042





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 6, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator  
  
(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49088 MCOAJ9

### Overview

This data package consisted of fourteen (14) soil samples and two (2) sediment samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 20, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Internal standard relative intensity and serial dilution issues required estimation of sample data.

### Minor Problems

Percent relative intensities (%RIs) for internal standard bismuth were outside the upper control limit (>125%) in the initial analyses of sample MCOAP4 and MCOAQ5. These sample were reanalyzed at two-fold (2X) dilutions with %RIs within control limits for these standards. The case narrative incorrectly states the %RIs were outside control limits for these dilutions. Associated analyte antimony (Sb) was reported from the initial analysis. Results for the diluted analysis were not available for reporting. The detected concentration for Sb in sample MCOAP4 and the quantitation limit for Sb in sample MCOAQ5 are estimated and have been qualified "J" and "UJ", respectively.

The percent difference (%D) in the ICP-MS serial dilution analysis was outside the control limit (>10%) for manganese (Mn) and vanadium (V) in sample MC0AJ9. Detected concentrations for Mn and V are estimated in this sample and have been qualified "J".

### Notes

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Target analyte Sb has been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than or equal to the CRQL in associated samples have been reported at the CRQL and qualified "U".

Target analyte Hg matrix spike, laboratory duplicate and Laboratory Control Sample analyses were within control limits.

The matrix spike recovery was low (<75%) for lead (Pb) in sample MC0AJ9. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)                      | Analyte   | Dilution |
|--------------------------------|-----------|----------|
| MC0AL8, MC0AL9, MC0AP3, MC0AP4 | Fe        | 5X       |
| MC0AQ5                         | Al, Fe    | 2X       |
| MC0AL8                         | Pb        | 2X       |
| MC0AL9, MC0AP3                 |           | 5X       |
| MC0AP4                         |           | 10X      |
| MC0AL9                         | Mn        | 2X       |
| MC0AP3, MC0AQ5, MC0AQ6         |           | 5X       |
| MC0AL9, MC0AQ5                 | zinc (Zn) | 2X       |
| MC0AP3                         |           | 5X       |
| MC0AP4                         | Hg        | 5X       |

The %RIs for the internal standards listed below were outside the upper control limit (>125%) in the initial analyses of the samples shown. These samples were reanalyzed at two-fold (2X) dilutions with %RIs within control limits for these standards. The case narrative incorrectly states the %RIs were outside control limits for the dilutions. Associated analytes shown were reported from the diluted analyses without qualification.

| Internal Standard | Associated Analyte(s) | Sample(s)  |
|-------------------|-----------------------|--|
| Scandium          | Mn                    | MC0AJ9, MC0AK9, MC0AL3, MC0AL9, MC0AM4, MC0AN4, MC0AN8, MC0AN9, MC0AP4, MC0AS3, MC0AS4 |
| Terbium           | Barium (Ba)           | MC0AQ5   |
| Bismuth           | Pb, thallium (Tl)     | MC0AQ5   |
|                   | Tl                    | MC0AP4   |

The %RI for internal standard holmium was outside the upper control limit (>125%) in the initial analysis of sample MC0AQ5. This sample was reanalyzed with the %RI within control limits. No reported target analytes were associated with this internal standard.

Sediment samples MC0AQ5 and MC0AQ6 contained less than thirty percent (<30%) solids. These samples were re-digested at higher sample weights. No data were qualified.

Sample calculation checks were performed on sample MC0AJ9. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: LCS684

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 37.9              |                 | mg/kg | 37.9       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1050              |                 | mg/kg | 1050       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 21.5              |                 | mg/kg | 21.5       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 997               |                 | mg/kg | 997        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 965               |                 | mg/kg | 965        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 968               |                 | mg/kg | 968        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS712 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-24 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                               | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              |                 | mg/kg | 0.11       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AJ9

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-24

pH:

Sample Date: 09/29/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 85.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11100             |                 | mg/kg | 11100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 433               | J               | mg/kg | 433        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 25000             |                 | mg/kg | 25000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1420              |                 | mg/kg | 1420       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 407               | J               | mg/kg | 407        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 575               | U               | mg/kg | 575        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-24 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                          | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.33       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.5              |                 | mg/kg | 46.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.66              |                 | mg/kg | 0.66       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.085             | J               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.1              |                 | mg/kg | 16.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 19.7              |                 | mg/kg | 19.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 295               | J               | mg/kg | 295        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.6              | J               | mg/kg | 31.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AJ9D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/29/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 85.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              |                 | mg/kg | 0.11       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AJ9D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 09/29/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 85.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11000             |                 | mg/kg | 11000      |          | 1               | YES        | NV               |
| Calcium      | Target       | 430               | J               | mg/kg | 430        | J        | 1               | YES        | NV               |
| Iron         | Target       | 25000             |                 | mg/kg | 25000      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1400              |                 | mg/kg | 1400       |          | 1               | YES        | NV               |
| Potassium    | Target       | 388               | J               | mg/kg | 388        | J        | 1               | YES        | NV               |
| Sodium       | Target       | 575               | U               | mg/kg | 575        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ9D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:            |                          | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.23              | J               | mg/kg | 0.23       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 2.5               |                 | mg/kg | 2.5        |          | 1               | YES        | NV               |
| Barium       | Target       | 47.2              |                 | mg/kg | 47.2       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.68              |                 | mg/kg | 0.68       |          | 1               | YES        | NV               |
| Cadmium      | Target       | 0.088             | J               | mg/kg | 0.088      | J        | 1               | YES        | NV               |
| Chromium     | Target       | 15.7              |                 | mg/kg | 15.7       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | NV               |
| Copper       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | NV               |
| Lead         | Target       | 19.7              |                 | mg/kg | 19.7       |          | 1               | YES        | NV               |
| Manganese    | Target       | 296               |                 | mg/kg | 296        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | NV               |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 30.9              |                 | mg/kg | 30.9       |          | 1               | YES        | NV               |
| Zinc         | Target       | 22.1              |                 | mg/kg | 22.1       |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AJ9L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 85.2 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11500             |                 | mg/kg | 11500      |          | 5               | YES        | NV               |
| Calcium      | Target       | 461               | J               | mg/kg | 461        | J        | 5               | YES        | NV               |
| Iron         | Target       | 27400             |                 | mg/kg | 27400      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 1490              | J               | mg/kg | 1490       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 2880              | U               | mg/kg | 2880       | U        | 5               | YES        | NV               |
| Sodium       | Target       | 2880              | U               | mg/kg | 2880       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AJ9L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 85.2 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 5.8               | U               | mg/kg | 5.8        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 2.6               | J               | mg/kg | 2.6        | J        | 5               | YES        | NV               |
| Barium       | Target       | 49.1              |                 | mg/kg | 49.1       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.78              | J               | mg/kg | 0.78       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 15.0              |                 | mg/kg | 15.0       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 4.3               |                 | mg/kg | 4.3        |          | 5               | YES        | NV               |
| Copper       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 5               | YES        | NV               |
| Lead         | Target       | 19.4              |                 | mg/kg | 19.4       |          | 5               | YES        | NV               |
| Manganese    | Target       | 379               |                 | mg/kg | 379        | DX*      | 10              | YES        | NV               |
| Nickel       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 5               | YES        | NV               |
| Selenium     | Target       | 14.5              | U               | mg/kg | 14.5       | U        | 5               | YES        | NV               |
| Silver       | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 24.7              |                 | mg/kg | 24.7       | X*       | 5               | YES        | NV               |
| Zinc         | Target       | 21.6              |                 | mg/kg | 21.6       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ9S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:            |                               | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.73              |                 | mg/kg | 0.73       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AJ9S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 09/29/2020 | Sample Time: 08:05:00 |
| % Moisture:            |                          | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 10.9              |                 | mg/kg | 10.9       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | NV               |
| Barium       | Spike        | 267               |                 | mg/kg | 267        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 43.4              |                 | mg/kg | 43.4       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 63.9              |                 | mg/kg | 63.9       |          | 1               | YES        | NV               |
| Copper       | Spike        | 38.3              |                 | mg/kg | 38.3       |          | 1               | YES        | NV               |
| Lead         | Spike        | 22.7              |                 | mg/kg | 22.7       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 346               |                 | mg/kg | 346        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 63.6              |                 | mg/kg | 63.6       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | NV               |
| Silver       | Spike        | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 94.4              |                 | mg/kg | 94.4       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 80.9              |                 | mg/kg | 80.9       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                               | % Solids: 89.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              |                 | mg/kg | 0.11       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK9          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                           | % Solids: 89.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11200             |                 | mg/kg | 11200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 289               | J               | mg/kg | 289        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 22200             |                 | mg/kg | 22200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1520              |                 | mg/kg | 1520       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 397               | J               | mg/kg | 397        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 540               | U               | mg/kg | 540        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-34 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                          | % Solids: 89.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 30.2              |                 | mg/kg | 30.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.070             | J               | mg/kg | 0.070      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 24.4              |                 | mg/kg | 24.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 272               |                 | mg/kg | 272        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.5              |                 | mg/kg | 20.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 20.4              |                 | mg/kg | 20.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AL3

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-38

pH:

Sample Date: 09/29/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 83.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.092      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL3          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-38 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                           | % Solids: 83.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12100             |                 | mg/kg | 12100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2710              |                 | mg/kg | 2710       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23300             |                 | mg/kg | 23300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3670              |                 | mg/kg | 3670       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1460              |                 | mg/kg | 1460       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 594               | U               | mg/kg | 594        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-38 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                          | % Solids: 83.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 57.5              |                 | mg/kg | 57.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              |                 | mg/kg | 0.53       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.7              |                 | mg/kg | 13.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.2              |                 | mg/kg | 50.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 242               |                 | mg/kg | 242        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.090             | J               | mg/kg | 0.090      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.9              |                 | mg/kg | 29.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 60.4              |                 | mg/kg | 60.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                               | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.26              |                 | mg/kg | 0.26       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                           | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4370              |                 | mg/kg | 4370       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20700             |                 | mg/kg | 20700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2360              |                 | mg/kg | 2360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1630              |                 | mg/kg | 1630       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 676               | U               | mg/kg | 676        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 10:20:00 |
| % Moisture:                    |                          | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 67.8              |                 | mg/kg | 67.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.3              |                 | mg/kg | 14.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 25.9              |                 | mg/kg | 25.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 155               |                 | mg/kg | 155        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 231               |                 | mg/kg | 231        | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.7              |                 | mg/kg | 21.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 124               |                 | mg/kg | 124        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                               | % Solids: 77.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.90              |                 | mg/kg | 0.90       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL8          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                           | % Solids: 77.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9500              |                 | mg/kg | 9500       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2690              |                 | mg/kg | 2690       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 136000            |                 | mg/kg | 136000     | D        | 5               | YES        | S4VEM            |
| Magnesium    | Target       | 2160              |                 | mg/kg | 2160       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1330              |                 | mg/kg | 1330       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 623               | U               | mg/kg | 623        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-43 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                          | % Solids: 77.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 32.8              |                 | mg/kg | 32.8       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 245               |                 | mg/kg | 245        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 234               |                 | mg/kg | 234        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 53.2              |                 | mg/kg | 53.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 446               |                 | mg/kg | 446        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 190               |                 | mg/kg | 190        | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 19.8              |                 | mg/kg | 19.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.9              |                 | mg/kg | 30.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 269               |                 | mg/kg | 269        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                               | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.032      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL9          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                           | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11600             |                 | mg/kg | 11600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2900              |                 | mg/kg | 2900       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 87200             |                 | mg/kg | 87200      | D        | 5               | YES        | S4VEM            |
| Magnesium    | Target       | 3720              |                 | mg/kg | 3720       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2930              |                 | mg/kg | 2930       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 596               | U               | mg/kg | 596        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AL9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-44 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                          | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 379               |                 | mg/kg | 379        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 42.4              |                 | mg/kg | 42.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 219               |                 | mg/kg | 219        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1180              |                 | mg/kg | 1180       | D        | 5               | YES        | S4VEM            |
| Manganese    | Target       | 417               |                 | mg/kg | 417        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 29.4              |                 | mg/kg | 29.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.6              |                 | mg/kg | 33.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 618               |                 | mg/kg | 618        | D        | 2               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                               | % Solids: 80.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.054      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                           | % Solids: 80.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7650              |                 | mg/kg | 7650       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 713               |                 | mg/kg | 713        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 13900             |                 | mg/kg | 13900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2800              |                 | mg/kg | 2800       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 692               |                 | mg/kg | 692        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 162               | J               | mg/kg | 162        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-24 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                          | % Solids: 80.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.88              | U               | mg/kg | 0.88       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.94              |                 | mg/kg | 0.94       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 29.8              |                 | mg/kg | 29.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.36              | J               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.081             | J               | mg/kg | 0.081      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.5              |                 | mg/kg | 13.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 40.8              |                 | mg/kg | 40.8       | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.2               | U               | mg/kg | 2.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.44              | U               | mg/kg | 0.44       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.44              | U               | mg/kg | 0.44       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 11.5              |                 | mg/kg | 11.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 27.4              |                 | mg/kg | 27.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                               | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.093      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                           | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11800             |                 | mg/kg | 11800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 563               |                 | mg/kg | 563        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15700             |                 | mg/kg | 15700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2570              |                 | mg/kg | 2570       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 564               |                 | mg/kg | 564        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 387               | J               | mg/kg | 387        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-34 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 09:00:00 |
| % Moisture:                    |                          | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.6              |                 | mg/kg | 37.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.4              |                 | mg/kg | 11.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 33.8              |                 | mg/kg | 33.8       | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 26.6              |                 | mg/kg | 26.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                               | % Solids: 92.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.040      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN8          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                           | % Solids: 92.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 19500             |                 | mg/kg | 19500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 406               | J               | mg/kg | 406        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 31100             |                 | mg/kg | 31100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 8430              |                 | mg/kg | 8430       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 10000             |                 | mg/kg | 10000      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 258               | J               | mg/kg | 258        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-38 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                          | % Solids: 92.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.96              | U               | mg/kg | 0.96       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 85.5              |                 | mg/kg | 85.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              |                 | mg/kg | 0.49       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.5              |                 | mg/kg | 20.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 31.3              |                 | mg/kg | 31.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 136               |                 | mg/kg | 136        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 2.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.1              |                 | mg/kg | 33.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 57.2              |                 | mg/kg | 57.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                               | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.052      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN9          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                           | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6630              |                 | mg/kg | 6630       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 267               | J               | mg/kg | 267        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 9560              |                 | mg/kg | 9560       |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1770              |                 | mg/kg | 1770       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 585               |                 | mg/kg | 585        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 560               | U               | mg/kg | 560        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                          | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.82              | U               | mg/kg | 0.82       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 23.3              |                 | mg/kg | 23.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.058             | J               | mg/kg | 0.058      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 78.1              |                 | mg/kg | 78.1       | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.1               | U               | mg/kg | 2.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.41              | U               | mg/kg | 0.41       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.41              | U               | mg/kg | 0.41       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 14.3              |                 | mg/kg | 14.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 32.0              |                 | mg/kg | 32.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP3          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-43 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AP3

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-43

pH:

Sample Date: 09/29/2020

Sample Time: 11:00:00

% Moisture:

% Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6950              |                 | mg/kg | 6950       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4420              |                 | mg/kg | 4420       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 123000            |                 | mg/kg | 123000     | D        | 5               | YES        | S4VEM            |
| Magnesium    | Target       | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 430               | J               | mg/kg | 430        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 598               | U               | mg/kg | 598        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-43 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 762               |                 | mg/kg | 762        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 22.3              |                 | mg/kg | 22.3       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 432               |                 | mg/kg | 432        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 150               |                 | mg/kg | 150        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1040              |                 | mg/kg | 1040       | D        | 5               | YES        | S4VEM            |
| Manganese    | Target       | 688               |                 | mg/kg | 688        | DX*      | 5               | YES        | S4VEM            |
| Nickel       | Target       | 71.8              |                 | mg/kg | 71.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 0.68              | J               | mg/kg | 0.68       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.86              |                 | mg/kg | 0.86       |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 12.7              |                 | mg/kg | 12.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1270              |                 | mg/kg | 1270       | D        | 5               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                               | % Solids: 71.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 5.5               |                 | mg/kg | 5.5        | D        | 5               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                           | % Solids: 71.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12200             |                 | mg/kg | 12200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4660              |                 | mg/kg | 4660       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 66800             |                 | mg/kg | 66800      | D        | 5               | YES        | S4VEM            |
| Magnesium    | Target       | 3860              |                 | mg/kg | 3860       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2250              |                 | mg/kg | 2250       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 112               | J               | mg/kg | 112        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-44 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 10:10:00 |
| % Moisture:                    |                          | % Solids: 71.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.5               | J               | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 523               |                 | mg/kg | 523        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 45.6              |                 | mg/kg | 45.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 112               |                 | mg/kg | 112        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 2310              |                 | mg/kg | 2310       | D        | 10              | YES        | S4VEM            |
| Manganese    | Target       | 266               |                 | mg/kg | 266        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 22.9              |                 | mg/kg | 22.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.1               | U               | mg/kg | 1.1        | UD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 21.8              |                 | mg/kg | 21.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 469               |                 | mg/kg | 469        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                               | % Solids: 8.5           |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.90              |                 | mg/kg | 0.90       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AQ5

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-22

pH:

Sample Date: 09/29/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 8.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 37100             |                 | mg/kg | 37100      | D        | 2               | YES        | S4VEM            |
| Calcium      | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 46700             |                 | mg/kg | 46700      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 8150              |                 | mg/kg | 8150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2060              |                 | mg/kg | 2060       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 687               |                 | mg/kg | 687        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-22 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                          | % Solids: 8.5           |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | UJ              | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 267               |                 | mg/kg | 267        | D        | 2               | YES        | S4VEM            |
| Beryllium    | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 150               |                 | mg/kg | 150        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 20.0              |                 | mg/kg | 20.0       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 288               |                 | mg/kg | 288        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 198               |                 | mg/kg | 198        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 1140              |                 | mg/kg | 1140       | DX*      | 5               | YES        | S4VEM            |
| Nickel       | Target       | 54.5              |                 | mg/kg | 54.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.7               |                 | mg/kg | 1.7        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | mg/kg | 1.0        | UD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 99.0              |                 | mg/kg | 99.0       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 731               |                 | mg/kg | 731        | D        | 2               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                           | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                               | % Solids: 18.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.27              |                 | mg/kg | 0.27       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                       | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                           | % Solids: 18.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8690              |                 | mg/kg | 8690       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3260              |                 | mg/kg | 3260       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15300             |                 | mg/kg | 15300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2480              |                 | mg/kg | 2480       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1020              |                 | mg/kg | 1020       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 353               | J               | mg/kg | 353        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-23 | pH:                      | Sample Date: 09/29/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                          | % Solids: 18.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.99              | U               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 100               |                 | mg/kg | 100        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.66              |                 | mg/kg | 0.66       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              |                 | mg/kg | 0.60       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 33.2              |                 | mg/kg | 33.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 54.1              |                 | mg/kg | 54.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 52.1              |                 | mg/kg | 52.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 690               |                 | mg/kg | 690        | DX*      | 5               | YES        | S4VEM            |
| Nickel       | Target       | 16.4              |                 | mg/kg | 16.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 1.1               | J               | mg/kg | 1.1        | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.49              | U               | mg/kg | 0.49       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.7              |                 | mg/kg | 24.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 166               |                 | mg/kg | 166        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                 |                               |                         |                       |
|---------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS3           | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                           | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                               | % Solids: 84.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.057      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                 |                           |                         |                       |
|---------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS3           | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                       | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                           | % Solids: 84.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7270              |                 | mg/kg | 7270       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 325               | J               | mg/kg | 325        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 12400             |                 | mg/kg | 12400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1610              |                 | mg/kg | 1610       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 508               | J               | mg/kg | 508        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 581               | U               | mg/kg | 581        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                 |                          |                         |                       |
|---------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS3           | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-39A | pH:                      | Sample Date: 09/29/2020 | Sample Time: 12:00:00 |
| % Moisture:                     |                          | % Solids: 84.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 22.2              |                 | mg/kg | 22.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              |                 | mg/kg | 0.52       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 135               |                 | mg/kg | 135        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 12.9              |                 | mg/kg | 12.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 30.5              |                 | mg/kg | 30.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                                 |                               |                         |                       |
|---------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS4           | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:                           | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                               | % Solids: 91.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

Sample Number: MC0AS4

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-39A

pH:

Sample Date: 09/29/2020

Sample Time: 11:45:00

% Moisture:

% Solids: 91.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7540              |                 | mg/kg | 7540       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 22800             |                 | mg/kg | 22800      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 14400             |                 | mg/kg | 14400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 13000             |                 | mg/kg | 13000      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2190              |                 | mg/kg | 2190       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 531               | U               | mg/kg | 531        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                                 |                          |                         |                       |
|---------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AS4           | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:                      | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                          | % Solids: 91.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.84              | U               | mg/kg | 0.23       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 49.1              |                 | mg/kg | 49.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              |                 | mg/kg | 0.51       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.5              |                 | mg/kg | 15.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.6              |                 | mg/kg | 14.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 37.2              |                 | mg/kg | 37.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 151               |                 | mg/kg | 151        | DX*      | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.1               | U               | mg/kg | 2.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.42              | U               | mg/kg | 0.42       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.42              | U               | mg/kg | 0.42       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.5              |                 | mg/kg | 27.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 56.1              |                 | mg/kg | 56.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AJ9

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS684 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS712 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.26              | J               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL26 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.029             | J               | mg/kg | 0.029      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AJ9

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 11/16/2020  
SUBJECT: Region III Data QA Review  
FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# MC0AK4 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1020048





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 12, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49088 MCOAK4

### Overview

This data package consisted of six (6) soil samples and four (4) sediment samples analyzed for metals by ICP-AES, ICP-MS and mercury (Hg) by cold vapor atomic absorption technique and two (2) surface water samples and two (2) ground water samples analyzed for metals by ICP-MS.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. For soil samples, the metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS. All TAL metals were analyzed by ICP-MS for the water matrices.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 23, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Matrix spike, internal standard relative intensity, and serial dilution issues required estimation of sample data.

### Minor Problems

The ICP-MS matrix spike recovery was low (<75%) for silver (Ag) in water sample MCOAR6. The post-digestion spike recovery was within control limits. The quantitation limit for Ag is estimated in this sample and has been qualified "UJ".

Percent relative intensities for internal standard scandium were outside the upper control limit (>125%) in the initial analyses of samples MCOAK4, MCOAK5, MCOAK7, MCOAM9, MCOAN0, MCOAN2, MCOAP9 and MCOAQ0. These sample were reanalyzed at two-fold (2X) dilutions with similar results for samples MCOAM9 and MCOAN0. Percent relative intensities for the dilutions were within control limits for the remaining samples. Detected concentrations for associated analyte chromium (Cr) are estimated in samples MCOAM9 and MCOAN0 and have been qualified "J". Detected concentrations for Cr in the remaining samples have been reported from the diluted analyses without qualification.

Percent relative intensities for internal standard bismuth were outside the upper control limit (>125%) in the initial analyses of samples MCOAK4, MCOAK5, MCOAQ2 and MCOAQ3. These sample were reanalyzed at two-fold (2X) dilutions with similar results for samples MCOAQ2 and MCOAQ3. Percent relative intensities for the dilutions were within control limits for samples MCOAK4 and MCOAK5. Detected concentrations for associated analyte lead (Pb) are estimated in samples MCOAQ2 and MCOAQ3 and have been qualified "J". Quantitation limits for associated analyte thallium (Tl) are estimated in samples MCOAQ2 and MCOAQ3 and have been qualified "UJ". Detected concentrations for Pb in samples MCOAK4 and MCOAK5 have been reported from the diluted analyses without qualification.

Percent differences (%Ds) in the ICP-MS serial dilution analysis were outside the control limit (>10%) for Pb, Ag, and vanadium (V) in soil sample MCOAK4. Detected concentrations for these analytes are estimated in this sample and have been qualified "J".

Percent differences (%Ds) in the ICP-MS serial dilution analysis were outside the control limit (>10%) for Mg, K, and Na in water sample MCOAR6. Detected concentrations for these analytes are estimated in this sample and have been qualified "J".

### **Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), Cr, cobalt (Co), selenium (Se), Tl, and V have been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than or equal to the CRQL in associated samples have been reported at the CRQL and qualified "U".

Target analyte Hg matrix spike, laboratory duplicate, and Laboratory Control Sample analyses were within control limits.

The matrix spike recovery was outside control limits for Pb in soil sample MCOAK4. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Sediment samples MCOAQ2 and MCOAQ3 contained less than thirty percent (<30%) solids. These samples were digested with higher sample weights. No data were qualified.



Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)              | Analyte(s)     | Dilution |
|------------------------|----------------|----------|
| MCOAK5, MCOAM9, MCOANO | Fe             | 2X       |
| MCOAK7                 | Pb             | 2X       |
| MCOAN2, MCOAQ3         | Manganese (Mn) | 2X       |
| MCOAR6                 | Ca, Mn         | 5X       |
| MCOAQ2                 | Mn             | 5X       |
| MCOAQ3                 | Cr             | 2X       |
| MCOAQ3                 | Ni, Zn         | 5X       |

Sample calculation checks were performed on soil sample MCOAK4 and water sample MCOARO. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

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Validation Qualifiers In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: LCS690

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 38.6              |                 | mg/kg | 38.6       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1030              |                 | mg/kg | 1030       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 21.0              |                 | mg/kg | 21.0       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 945               |                 | mg/kg | 945        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 944               |                 | mg/kg | 944        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 960               |                 | mg/kg | 960        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS715 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.6               |                 | mg/kg | 9.6        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.2               |                 | mg/kg | 1.2        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS716 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.5              |                 | ug/L  | 39.5       |          | 1               | YES        | S4VEM            |
| Antimony     | Spike        | 3.6               |                 | ug/L  | 3.6        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.8               |                 | ug/L  | 1.8        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 18.9              |                 | ug/L  | 18.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 940               |                 | ug/L  | 940        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 3.6               |                 | ug/L  | 3.6        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 3.9               |                 | ug/L  | 3.9        |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 384               |                 | ug/L  | 384        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 1010              |                 | ug/L  | 1010       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.8               |                 | ug/L  | 1.8        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 991               |                 | ug/L  | 991        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 9.9               |                 | ug/L  | 9.9        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 1020              |                 | ug/L  | 1020       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 8.8               |                 | ug/L  | 8.8        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 3.9               |                 | ug/L  | 3.9        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                               | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.87              |                 | mg/kg | 0.87       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                           | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15700             |                 | mg/kg | 15700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3590              |                 | mg/kg | 3590       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 31100             |                 | mg/kg | 31100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5570              |                 | mg/kg | 5570       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 6370              |                 | mg/kg | 6370       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 196               | J               | mg/kg | 196        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-29 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:                    |                          | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.59       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 160               |                 | mg/kg | 160        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              |                 | mg/kg | 0.62       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 213               |                 | mg/kg | 213        | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 119               |                 | mg/kg | 119        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 103               | J               | mg/kg | 103        | DX*      | 2               | YES        | S4VEM            |
| Manganese    | Target       | 154               |                 | mg/kg | 154        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 73.7              |                 | mg/kg | 73.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 11.5              | J               | mg/kg | 11.5       | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.27              | J               | mg/kg | 0.27       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 40.6              | J               | mg/kg | 40.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 330               |                 | mg/kg | 330        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AK4D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/01/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 80.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.87              |                 | mg/kg | 0.87       |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK4D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:            |                           | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15500             |                 | mg/kg | 15500      |          | 1               | YES        | NV               |
| Calcium      | Target       | 3570              |                 | mg/kg | 3570       |          | 1               | YES        | NV               |
| Iron         | Target       | 30900             |                 | mg/kg | 30900      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 5560              |                 | mg/kg | 5560       |          | 1               | YES        | NV               |
| Potassium    | Target       | 6310              |                 | mg/kg | 6310       |          | 1               | YES        | NV               |
| Sodium       | Target       | 192               | J               | mg/kg | 192        | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK4D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:            |                          | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | NV               |
| Barium       | Target       | 162               |                 | mg/kg | 162        |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.66              |                 | mg/kg | 0.66       |          | 1               | YES        | NV               |
| Cadmium      | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | NV               |
| Chromium     | Target       | 211               |                 | mg/kg | 211        | D        | 2               | YES        | NV               |
| Cobalt       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | NV               |
| Copper       | Target       | 122               |                 | mg/kg | 122        |          | 1               | YES        | NV               |
| Lead         | Target       | 103               |                 | mg/kg | 103        | D        | 2               | YES        | NV               |
| Manganese    | Target       | 154               |                 | mg/kg | 154        |          | 1               | YES        | NV               |
| Nickel       | Target       | 73.8              |                 | mg/kg | 73.8       |          | 1               | YES        | NV               |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | NV               |
| Silver       | Target       | 11.6              |                 | mg/kg | 11.6       |          | 1               | YES        | NV               |
| Thallium     | Target       | 0.27              | J               | mg/kg | 0.27       | J        | 1               | YES        | NV               |
| Vanadium     | Target       | 38.6              |                 | mg/kg | 38.6       |          | 1               | YES        | NV               |
| Zinc         | Target       | 333               |                 | mg/kg | 333        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AK4L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 80.8 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15600             |                 | mg/kg | 15600      |          | 5               | YES        | NV               |
| Calcium      | Target       | 4250              |                 | mg/kg | 4250       |          | 5               | YES        | NV               |
| Iron         | Target       | 33000             |                 | mg/kg | 33000      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 5710              |                 | mg/kg | 5710       |          | 5               | YES        | NV               |
| Potassium    | Target       | 6430              |                 | mg/kg | 6430       |          | 5               | YES        | NV               |
| Sodium       | Target       | 719               | J               | mg/kg | 719        | J        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AK4L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 80.8 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | J               | mg/kg | 1.0        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 5               | YES        | NV               |
| Barium       | Target       | 165               |                 | mg/kg | 165        |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.67              | J               | mg/kg | 0.67       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 1.8               | J               | mg/kg | 1.8        | J        | 5               | YES        | NV               |
| Chromium     | Target       | 231               |                 | mg/kg | 231        | D        | 10              | YES        | NV               |
| Cobalt       | Target       | 7.4               |                 | mg/kg | 7.4        |          | 5               | YES        | NV               |
| Copper       | Target       | 114               |                 | mg/kg | 114        |          | 5               | YES        | NV               |
| Lead         | Target       | 125               |                 | mg/kg | 125        | DX*      | 10              | YES        | NV               |
| Manganese    | Target       | 145               |                 | mg/kg | 145        |          | 5               | YES        | NV               |
| Nickel       | Target       | 72.4              |                 | mg/kg | 72.4       |          | 5               | YES        | NV               |
| Selenium     | Target       | 14.6              | U               | mg/kg | 14.6       | U        | 5               | YES        | NV               |
| Silver       | Target       | 15.0              |                 | mg/kg | 15.0       | X*       | 5               | YES        | NV               |
| Thallium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 33.9              |                 | mg/kg | 33.9       | X*       | 5               | YES        | NV               |
| Zinc         | Target       | 312               |                 | mg/kg | 312        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AK4S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/01/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 80.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK4S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 10/01/2020 | Sample Time: 10:45:00 |
| % Moisture:            |                          | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | NV               |
| Barium       | Spike        | 406               |                 | mg/kg | 406        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 236               |                 | mg/kg | 236        | D        | 2               | YES        | NV               |
| Cobalt       | Spike        | 68.0              |                 | mg/kg | 68.0       |          | 1               | YES        | NV               |
| Copper       | Spike        | 156               |                 | mg/kg | 156        |          | 1               | YES        | NV               |
| Lead         | Spike        | 109               |                 | mg/kg | 109        | D        | 2               | YES        | NV               |
| Manganese    | Spike        | 217               |                 | mg/kg | 217        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 139               |                 | mg/kg | 139        |          | 1               | YES        | NV               |
| Selenium     | Spike        | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | NV               |
| Silver       | Spike        | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | NV               |
| Thallium     | Spike        | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 96.7              |                 | mg/kg | 96.7       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 404               |                 | mg/kg | 404        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                               | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.48              |                 | mg/kg | 0.48       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                           | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20900             |                 | mg/kg | 20900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3010              |                 | mg/kg | 3010       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 37900             |                 | mg/kg | 37900      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 7770              |                 | mg/kg | 7770       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 291               | J               | mg/kg | 291        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-30 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 08:25:00 |
| % Moisture:                    |                          | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 143               |                 | mg/kg | 143        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.2               |                 | mg/kg | 1.2        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 88.7              |                 | mg/kg | 88.7       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 102               |                 | mg/kg | 102        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 54.0              |                 | mg/kg | 54.0       | DX*      | 2               | YES        | S4VEM            |
| Manganese    | Target       | 203               |                 | mg/kg | 203        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 42.8              |                 | mg/kg | 42.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 6.8               |                 | mg/kg | 6.8        | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 43.8              |                 | mg/kg | 43.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 285               |                 | mg/kg | 285        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AK7

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NL-2020-SS-32

pH:

Sample Date: 10/01/2020

Sample Time: 09:45:00

% Moisture:

% Solids: 88.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.17              |                 | mg/kg | 0.17       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-32 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                           | % Solids: 88.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15200             |                 | mg/kg | 15200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1110              |                 | mg/kg | 1110       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 27700             |                 | mg/kg | 27700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5940              |                 | mg/kg | 5940       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 7560              |                 | mg/kg | 7560       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 229               | J               | mg/kg | 229        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AK7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-32 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 09:45:00 |
| % Moisture:                    |                          | % Solids: 88.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 99.9              |                 | mg/kg | 99.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              |                 | mg/kg | 0.55       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 62.3              |                 | mg/kg | 62.3       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 51.8              |                 | mg/kg | 51.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 354               |                 | mg/kg | 354        | DX*      | 2               | YES        | S4VEM            |
| Manganese    | Target       | 133               |                 | mg/kg | 133        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 30.1              |                 | mg/kg | 30.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 3.1               |                 | mg/kg | 3.1        | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 35.8              |                 | mg/kg | 35.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 124               |                 | mg/kg | 124        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AM9

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-29

pH:

Sample Date: 10/01/2020

Sample Time: 10:50:00

% Moisture:

% Solids: 87.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.016      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM9          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-29 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 10:50:00 |
| % Moisture:                    |                           | % Solids: 87.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 21600             |                 | mg/kg | 21600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 599               |                 | mg/kg | 599        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 36200             |                 | mg/kg | 36200      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 7330              |                 | mg/kg | 7330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 8440              |                 | mg/kg | 8440       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 269               | J               | mg/kg | 269        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AM9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-29 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 10:50:00 |
| % Moisture:                    |                          | % Solids: 87.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 82.2              |                 | mg/kg | 82.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.8              | J               | mg/kg | 12.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 29.0              |                 | mg/kg | 29.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.3               |                 | mg/kg | 9.3        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 106               |                 | mg/kg | 106        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | UX*      | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.3              |                 | mg/kg | 41.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 63.1              |                 | mg/kg | 63.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                               | % Solids: 83.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              |                 | mg/kg | 0.14       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AN0

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-30

pH:

Sample Date: 10/01/2020

Sample Time: 08:45:00

% Moisture:

% Solids: 83.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 26500             |                 | mg/kg | 26500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1090              |                 | mg/kg | 1090       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 43900             |                 | mg/kg | 43900      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 11200             |                 | mg/kg | 11200      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 13700             |                 | mg/kg | 13700      |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 461               | J               | mg/kg | 461        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-30 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                          | % Solids: 83.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 95.7              |                 | mg/kg | 95.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.73              |                 | mg/kg | 0.73       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.079             | J               | mg/kg | 0.079      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.0              | J               | mg/kg | 17.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.5               |                 | mg/kg | 9.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 26.8              |                 | mg/kg | 26.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.5               |                 | mg/kg | 8.5        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 172               |                 | mg/kg | 172        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 17.3              |                 | mg/kg | 17.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.22              | J               | mg/kg | 0.22       | JX*      | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 48.5              |                 | mg/kg | 48.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 64.1              |                 | mg/kg | 64.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-32 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 09:50:00 |
| % Moisture:                    |                               | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.044      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AN2

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NL-2020-SB-32

pH:

Sample Date: 10/01/2020

Sample Time: 09:50:00

% Moisture:

% Solids: 82.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 17000             |                 | mg/kg | 17000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1200              |                 | mg/kg | 1200       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 28000             |                 | mg/kg | 28000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5530              |                 | mg/kg | 5530       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 7640              |                 | mg/kg | 7640       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 195               | J               | mg/kg | 195        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AN2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SB-32 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 09:50:00 |
| % Moisture:                    |                          | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 83.5              |                 | mg/kg | 83.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.24              | J               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.6              |                 | mg/kg | 13.6       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 35.1              |                 | mg/kg | 35.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 36.7              |                 | mg/kg | 36.7       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 198               |                 | mg/kg | 198        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 16.0              |                 | mg/kg | 16.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.060             | J               | mg/kg | 0.060      | JX*      | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.2              |                 | mg/kg | 34.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 78.4              |                 | mg/kg | 78.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                               | % Solids: 54.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.17              | U               | mg/kg | 0.052      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP9          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                           | % Solids: 54.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15500             |                 | mg/kg | 15500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3310              |                 | mg/kg | 3310       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24400             |                 | mg/kg | 24400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5150              |                 | mg/kg | 5150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1550              |                 | mg/kg | 1550       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 205               | J               | mg/kg | 205        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-16 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 08:45:00 |
| % Moisture:                    |                          | % Solids: 54.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.6               | U               | mg/kg | 1.6        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 87.0              |                 | mg/kg | 87.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.80              | U               | mg/kg | 0.80       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.6              |                 | mg/kg | 25.6       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 8.8               |                 | mg/kg | 8.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 24.2              |                 | mg/kg | 24.2       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 327               |                 | mg/kg | 327        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 19.5              |                 | mg/kg | 19.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.0               | U               | mg/kg | 0.70       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.19              | J               | mg/kg | 0.19       | JX*      | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.80              | U               | mg/kg | 0.80       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.6              |                 | mg/kg | 24.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 83.4              |                 | mg/kg | 83.4       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                               | % Solids: 52.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.18              | U               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ0          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                           | % Solids: 52.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11700             |                 | mg/kg | 11700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5880              |                 | mg/kg | 5880       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23100             |                 | mg/kg | 23100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 6330              |                 | mg/kg | 6330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3030              |                 | mg/kg | 3030       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 177               | J               | mg/kg | 177        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-17 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 07:20:00 |
| % Moisture:                    |                          | % Solids: 52.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.8               | U               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 97.8              |                 | mg/kg | 97.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.89              | U               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 30.3              |                 | mg/kg | 30.3       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 42.0              |                 | mg/kg | 42.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 69.5              |                 | mg/kg | 69.5       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 194               |                 | mg/kg | 194        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 23.9              |                 | mg/kg | 23.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.4               | U               | mg/kg | 4.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.28              | J               | mg/kg | 0.28       | JX*      | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.6              |                 | mg/kg | 27.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 193               |                 | mg/kg | 193        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                               | % Solids: 24.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.35              |                 | mg/kg | 0.35       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ2          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                           | % Solids: 24.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13100             |                 | mg/kg | 13100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 9410              |                 | mg/kg | 9410       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 28500             |                 | mg/kg | 28500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 6170              |                 | mg/kg | 6170       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2270              |                 | mg/kg | 2270       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 233               | J               | mg/kg | 233        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-19 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 09:20:00 |
| % Moisture:                    |                          | % Solids: 24.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 153               |                 | mg/kg | 153        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.91              |                 | mg/kg | 0.91       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 35.5              |                 | mg/kg | 35.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 13.9              |                 | mg/kg | 13.9       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 98.8              |                 | mg/kg | 98.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 97.1              | J               | mg/kg | 97.1       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 748               |                 | mg/kg | 748        | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 79.1              |                 | mg/kg | 79.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 0.65       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.4               |                 | mg/kg | 1.4        | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | UJ              | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 46.9              |                 | mg/kg | 46.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 386               |                 | mg/kg | 386        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ3          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                           | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                               | % Solids: 18.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ3          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                       | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                           | % Solids: 18.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15000             |                 | mg/kg | 15000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 11300             |                 | mg/kg | 11300      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 25000             |                 | mg/kg | 25000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4420              |                 | mg/kg | 4420       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1400              |                 | mg/kg | 1400       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 268               | J               | mg/kg | 268        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-20 | pH:                      | Sample Date: 10/01/2020 | Sample Time: 08:20:00 |
| % Moisture:                    |                          | % Solids: 18.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 277               |                 | mg/kg | 277        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 907               |                 | mg/kg | 907        | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 13.8              |                 | mg/kg | 13.8       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 364               |                 | mg/kg | 364        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 66.6              | J               | mg/kg | 66.6       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 433               |                 | mg/kg | 433        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 976               |                 | mg/kg | 976        | D        | 5               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 1.9        | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 40.3              |                 | mg/kg | 40.3       | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.49              | UJ              | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 42.5              |                 | mg/kg | 42.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1560              |                 | mg/kg | 1560       | D        | 5               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR0          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-16 | pH: 2.                        | Sample Date: 10/01/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.89              |                 | ug/L  | 0.89       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR0          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-16 | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 08:50:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 105               |                 | ug/L  | 105        |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.74       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.5               |                 | ug/L  | 1.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.7              |                 | ug/L  | 32.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 13500             |                 | ug/L  | 13500      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.81       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.40       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 4.0               |                 | ug/L  | 4.0        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 568               |                 | ug/L  | 568        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.5               |                 | ug/L  | 1.5        |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4550              |                 | ug/L  | 4550       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 91.7              |                 | ug/L  | 91.7       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.8               |                 | ug/L  | 1.8        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2680              |                 | ug/L  | 2680       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U*       | 1               | YES        | S4VEM            |
| Sodium       | Target       | 11600             |                 | ug/L  | 11600      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 0.78       | J        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 9.8               |                 | ug/L  | 9.8        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AR1

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-17

pH: 2.

Sample Date: 10/01/2020

Sample Time: 07:25:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.87              |                 | ug/L  | 0.87       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR1          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-17 | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 07:25:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 61.4              |                 | ug/L  | 61.4       |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.56       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.2               |                 | ug/L  | 1.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 26.9              |                 | ug/L  | 26.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 12700             |                 | ug/L  | 12700      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.77       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.22       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 3.4               |                 | ug/L  | 3.4        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 369               |                 | ug/L  | 369        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.92              | J               | ug/L  | 0.92       | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4400              |                 | ug/L  | 4400       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 67.6              |                 | ug/L  | 67.6       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.4               |                 | ug/L  | 1.4        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2580              |                 | ug/L  | 2580       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U*       | 1               | YES        | S4VEM            |
| Sodium       | Target       | 11200             |                 | ug/L  | 11200      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 6.8               |                 | ug/L  | 6.8        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR5          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-03 | pH: 2.                        | Sample Date: 10/01/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.86              |                 | ug/L  | 0.86       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR5          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-03 | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 14:05:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 130               |                 | ug/L  | 130        |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.40       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.5               |                 | ug/L  | 2.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 8.5        | J        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 22100             |                 | ug/L  | 22100      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 1.0        | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.19       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.2               |                 | ug/L  | 2.2        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 63.5              | J               | ug/L  | 63.5       | J        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1660              |                 | ug/L  | 1660       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 6.0               |                 | ug/L  | 6.0        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.65              | J               | ug/L  | 0.65       | J        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2430              |                 | ug/L  | 2430       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 0.93       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U*       | 1               | YES        | S4VEM            |
| Sodium       | Target       | 20600             |                 | ug/L  | 20600      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.4               |                 | ug/L  | 5.4        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.6               | J               | ug/L  | 1.6        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR6          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 2.                        | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.86              |                 | ug/L  | 0.86       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR6          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-04 | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 149               |                 | ug/L  | 149        |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 1.4        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 0.52       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 73.3              |                 | ug/L  | 73.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 2.9               |                 | ug/L  | 2.9        |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 162000            |                 | ug/L  | 162000     | D        | 5               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.94       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.8               |                 | ug/L  | 1.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.3              |                 | ug/L  | 14.3       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 539               |                 | ug/L  | 539        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 37.9              |                 | ug/L  | 37.9       |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 15700             | J               | ug/L  | 15700      | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1320              |                 | ug/L  | 1320       | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 31.6              |                 | ug/L  | 31.6       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 12100             | J               | ug/L  | 12100      | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | UJ              | ug/L  | 1.0        | U*       | 1               | YES        | S4VEM            |
| Sodium       | Target       | 18500             | J               | ug/L  | 18500      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 1.9        | J        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 833               |                 | ug/L  | 833        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR6A | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Silver       | Spike        | 2.2               |                 | mg/L  | 2.2        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AR6D

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location:

pH: 2.

Sample Date: 10/01/2020

Sample Time: 12:25:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.86              |                 | mg/L  | 0.86       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR6D | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 148               |                 | mg/L  | 148        |          | 1               | YES        | NV               |
| Antimony     | Target       | 1.3               | J               | mg/L  | 1.3        | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 0.66              | J               | mg/L  | 0.66       | J        | 1               | YES        | NV               |
| Barium       | Target       | 73.3              |                 | mg/L  | 73.3       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Cadmium      | Target       | 2.9               |                 | mg/L  | 2.9        |          | 1               | YES        | NV               |
| Calcium      | Target       | 168000            |                 | mg/L  | 168000     | D        | 5               | YES        | NV               |
| Chromium     | Target       | 0.93              | J               | mg/L  | 0.93       | J        | 1               | YES        | NV               |
| Cobalt       | Target       | 1.8               |                 | mg/L  | 1.8        |          | 1               | YES        | NV               |
| Copper       | Target       | 13.9              |                 | mg/L  | 13.9       |          | 1               | YES        | NV               |
| Iron         | Target       | 531               |                 | mg/L  | 531        |          | 1               | YES        | NV               |
| Lead         | Target       | 37.8              |                 | mg/L  | 37.8       |          | 1               | YES        | NV               |
| Magnesium    | Target       | 15800             |                 | mg/L  | 15800      |          | 1               | YES        | NV               |
| Manganese    | Target       | 1390              |                 | mg/L  | 1390       | D        | 5               | YES        | NV               |
| Nickel       | Target       | 31.0              |                 | mg/L  | 31.0       |          | 1               | YES        | NV               |
| Potassium    | Target       | 12200             |                 | mg/L  | 12200      |          | 1               | YES        | NV               |
| Selenium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 1               | YES        | NV               |
| Silver       | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Sodium       | Target       | 18700             |                 | mg/L  | 18700      |          | 1               | YES        | NV               |
| Thallium     | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 2.0               | J               | mg/L  | 2.0        | J        | 1               | YES        | NV               |
| Zinc         | Target       | 826               |                 | mg/L  | 826        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                        |                          |               |              |
|------------------------|--------------------------|---------------|--------------|
| Sample Number: MC0AR6L | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                   | Sample Date:  | Sample Time: |
| % Moisture:            |                          | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 152               |                 | mg/L  | 152        |          | 5               | YES        | NV               |
| Antimony     | Target       | 4.0               | J               | mg/L  | 4.0        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 0.94              | J               | mg/L  | 0.94       | J        | 5               | YES        | NV               |
| Barium       | Target       | 85.2              |                 | mg/L  | 85.2       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.0               | J               | mg/L  | 3.0        | J        | 5               | YES        | NV               |
| Calcium      | Target       | 164000            |                 | mg/L  | 164000     | D        | 25              | YES        | NV               |
| Chromium     | Target       | 1.9               | J               | mg/L  | 1.9        | J        | 5               | YES        | NV               |
| Cobalt       | Target       | 4.4               | J               | mg/L  | 4.4        | J        | 5               | YES        | NV               |
| Copper       | Target       | 15.0              |                 | mg/L  | 15.0       |          | 5               | YES        | NV               |
| Iron         | Target       | 504               | J               | mg/L  | 504        | J        | 5               | YES        | NV               |
| Lead         | Target       | 37.3              |                 | mg/L  | 37.3       |          | 5               | YES        | NV               |
| Magnesium    | Target       | 21100             |                 | mg/L  | 21100      | X*       | 5               | YES        | NV               |
| Manganese    | Target       | 1270              |                 | mg/L  | 1270       | D        | 25              | YES        | NV               |
| Nickel       | Target       | 34.4              |                 | mg/L  | 34.4       |          | 5               | YES        | NV               |
| Potassium    | Target       | 15200             |                 | mg/L  | 15200      | X*       | 5               | YES        | NV               |
| Selenium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Silver       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Sodium       | Target       | 24100             |                 | mg/L  | 24100      | X*       | 5               | YES        | NV               |
| Thallium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 4.3               | J               | mg/L  | 4.3        | J        | 5               | YES        | NV               |
| Zinc         | Target       | 864               |                 | mg/L  | 864        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

Sample Number: MC0AR6S

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location:

pH: 2.

Sample Date: 10/01/2020

Sample Time: 12:25:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 1.8               |                 | mg/L  | 1.8        |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR6S | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 10/01/2020 | Sample Time: 12:25:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 89.9              |                 | mg/L  | 89.9       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 37.2              |                 | mg/L  | 37.2       |          | 1               | YES        | NV               |
| Barium       | Spike        | 1930              |                 | mg/L  | 1930       |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 45.9              |                 | mg/L  | 45.9       |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 53.0              |                 | mg/L  | 53.0       |          | 1               | YES        | NV               |
| Chromium     | Spike        | 195               |                 | mg/L  | 195        |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 469               |                 | mg/L  | 469        |          | 1               | YES        | NV               |
| Copper       | Spike        | 243               |                 | mg/L  | 243        |          | 1               | YES        | NV               |
| Lead         | Spike        | 57.9              |                 | mg/L  | 57.9       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 1780              |                 | mg/L  | 1780       | D        | 5               | YES        | NV               |
| Nickel       | Spike        | 498               |                 | mg/L  | 498        |          | 1               | YES        | NV               |
| Selenium     | Spike        | 105               |                 | mg/L  | 105        |          | 1               | YES        | NV               |
| Silver       | Spike        | 33.0              |                 | mg/L  | 33.0       | *        | 1               | YES        | NV               |
| Thallium     | Spike        | 49.4              |                 | mg/L  | 49.4       |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 495               |                 | mg/L  | 495        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 1270              |                 | mg/L  | 1270       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS690 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AK4

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS715 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL28 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBW716 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | ug/L  | 20.0       | U        | 1               | YES        | S4VEM            |
| Antimony     | Target       | 0.43              | J               | ug/L  | 0.43       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBWL30 | Method: Mercury by Cold Vapor | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.086             | J               | ug/L  | 0.086      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AK4

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 11/30/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# MC0AP6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1120003





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** November 29, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49088 MCOAP6

### Overview

This data package consisted of five (5) sediment samples, including a field duplicate pair, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique. In addition, four (4) surface water samples, including a field duplicate pair, and three (3) ground water samples, including a field duplicate pair, were analyzed for total metals by ICP-MS.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS for the soil matrix. All TAL metals were analyzed by ICP-MS for the water matrices.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated October 28, 2020 and additional information dated November 2, 2020 and November 12, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Laboratory duplicate, serial dilution, and blank contaminant issues required qualification of sample data.

### Minor Problems

The Relative Percent Difference (RPD) in the laboratory duplicate analysis was outside control limits of twenty (20) RPD or  $\pm$  Contract Required Quantitation Limit (CRQL) if results are less than 5X the CRQL for nickel (Ni) in water sample MCOAQ9. The detected concentration for Ni is estimated in this sample and has been qualified "J".

The percent difference (%D) in the ICP-MS serial dilution analysis was outside the control limit (>10%) for lead (Pb) in sediment sample MCOAP8. The detected concentration for Pb is estimated in this sample and has been qualified "J".

Percent differences (%Ds) in the ICP-MS serial dilution analysis were outside the control limit (>10%) for Mg, manganese (Mn) and Na in water sample MCOAQ9. Detected concentrations for these analytes are estimated in this sample and have been qualified "J".

### **Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Aluminum (Al), antimony (Sb), arsenic (As), beryllium (Be), cadmium (Cd) chromium (Cr), cobalt (Co), Fe, Pb, selenium (Se), and vanadium (V) have been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than or equal to the CRQL in associated samples have been reported at the CRQL and qualified "U".

Target analyte Hg matrix spike, ICP-AES and ICP-MS laboratory duplicate for the sediment matrix, Hg laboratory duplicate and Laboratory Control Sample analyses were within control limits.

The matrix spike recovery was outside control limits for Pb in soil sample MCOAP8. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

The percent relative intensity (%RI) for internal standard scandium was outside the upper control limit (>125%) in the initial analyses of sample MCOAP8. This sample was reanalyzed at a two-fold (2X) dilution with the %RI within control limits for this standard. Associated analyte V was reported from the diluted analysis without qualification.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s) | Analyte(s) | Dilution |
|-----------|------------|----------|
| MCOAP8    | Mn         | 2X       |
| MCOAR3    | Mn, Na     | 5X       |

Sediment samples MCOAP8, MCOAQ4 and MCOAT5 contained less than fifty percent (<50%) solids but greater than thirty percent (>30%) solids. No data were qualified based on this finding.

Results reported for ground water field duplicate pair MCOAR8/MCOAT4 were comparable (within control limits of 25 RPD or  $\pm$  CRQL) for all analytes except Al and Fe. No data were qualified based on field duplicate precision.



Results reported for surface water field duplicate pair MCOAQ7/MCOAW2 were comparable (within control limits of RPD or  $\pm$  CRQL) for all analytes except Hg. No data were qualified based on field duplicate precision.

Results reported for sediment field duplicate pair MCOAQ4/MCOAT5 were comparable (within control limits of 25 RPD or  $\pm$  CRQL) for all analytes. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on sediment sample MCOAP6 and water sample MCOAQ7. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

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|                       |  |
|-----------------------|--|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result. |
|-----------------------|--|

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- |    |   |
|----|---|
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                          |
| U  | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| B  | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: LCS691

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 37.3              |                 | mg/kg | 37.3       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1060              |                 | mg/kg | 1060       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 20.9              |                 | mg/kg | 20.9       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 950               |                 | mg/kg | 950        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 937               |                 | mg/kg | 937        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 955               |                 | mg/kg | 955        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AP6

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS718 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.2               |                 | mg/kg | 1.2        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AP6

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS719 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 41.3              |                 | ug/L  | 41.3       |          | 1               | YES        | S4VEM            |
| Antimony     | Spike        | 3.9               |                 | ug/L  | 3.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 20.6              |                 | ug/L  | 20.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1020              |                 | ug/L  | 1020       |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 3.8               |                 | ug/L  | 3.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 4.0               |                 | ug/L  | 4.0        |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 398               |                 | ug/L  | 398        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 1010              |                 | ug/L  | 1010       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 2.2               |                 | ug/L  | 2.2        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 999               |                 | ug/L  | 999        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 11.0              |                 | ug/L  | 11.0       |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 2.3               |                 | ug/L  | 2.3        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 997               |                 | ug/L  | 997        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 9.0               |                 | ug/L  | 9.0        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 4.1               |                 | ug/L  | 4.1        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AP6

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NL-2020-SD-13

pH:

Sample Date: 10/06/2020

Sample Time: 09:10:00

% Moisture:

% Solids: 61.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.37              |                 | mg/kg | 0.37       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-13 | pH:                       | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                           | % Solids: 61.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 5300              |                 | mg/kg | 5300       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2890              |                 | mg/kg | 2890       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 13400             |                 | mg/kg | 13400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2320              |                 | mg/kg | 2320       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1330              |                 | mg/kg | 1330       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 129               | J               | mg/kg | 129        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-13 | pH:                      | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                          | % Solids: 61.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.6               | U               | mg/kg | 1.0        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 67.8              |                 | mg/kg | 67.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 132               |                 | mg/kg | 132        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 49.2              |                 | mg/kg | 49.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 51.8              |                 | mg/kg | 51.8       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 281               |                 | mg/kg | 281        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 27.3              |                 | mg/kg | 27.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.0               | U               | mg/kg | 4.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.80              | U               | mg/kg | 0.80       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.1              |                 | mg/kg | 20.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 173               |                 | mg/kg | 173        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                           | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                               | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.047             | J               | mg/kg | 0.047      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                       | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                           | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 4870              |                 | mg/kg | 4870       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 6460              |                 | mg/kg | 6460       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 10500             |                 | mg/kg | 10500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3690              |                 | mg/kg | 3690       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1930              |                 | mg/kg | 1930       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 601               | U               | mg/kg | 601        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-14 | pH:                      | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                          | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 23.6              |                 | mg/kg | 23.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.0              |                 | mg/kg | 13.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 19.1              |                 | mg/kg | 19.1       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 122               |                 | mg/kg | 122        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 48.1              |                 | mg/kg | 48.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP8          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                           | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                               | % Solids: 45.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.23              |                 | mg/kg | 0.23       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP8          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                       | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                           | % Solids: 45.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10800             |                 | mg/kg | 10800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5450              |                 | mg/kg | 5450       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21700             |                 | mg/kg | 21700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5410              |                 | mg/kg | 5410       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2730              |                 | mg/kg | 2730       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 197               | J               | mg/kg | 197        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP8          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-15 | pH:                      | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                          | % Solids: 45.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.2               | U               | mg/kg | 1.7        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 114               |                 | mg/kg | 114        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.73              | J               | mg/kg | 0.73       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.83              | J               | mg/kg | 0.83       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 34.0              |                 | mg/kg | 34.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 60.5              |                 | mg/kg | 60.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 89.1              | J               | mg/kg | 89.1       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 568               |                 | mg/kg | 568        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 24.7              |                 | mg/kg | 24.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.4               | U               | mg/kg | 1.2        | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.9              |                 | mg/kg | 29.9       | D        | 2               | YES        | S4VEM            |
| Zinc         | Target       | 296               |                 | mg/kg | 296        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AP8D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 45.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.23              |                 | mg/kg | 0.23       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AP8D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 45.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10900             |                 | mg/kg | 10900      |          | 1               | YES        | NV               |
| Calcium      | Target       | 5510              |                 | mg/kg | 5510       |          | 1               | YES        | NV               |
| Iron         | Target       | 21900             |                 | mg/kg | 21900      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 5470              |                 | mg/kg | 5470       |          | 1               | YES        | NV               |
| Potassium    | Target       | 2700              |                 | mg/kg | 2700       |          | 1               | YES        | NV               |
| Sodium       | Target       | 188               | J               | mg/kg | 188        | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP8D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                          | % Solids: 45.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.5               | J               | mg/kg | 1.5        | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | NV               |
| Barium       | Target       | 114               |                 | mg/kg | 114        |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.73              | J               | mg/kg | 0.73       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.86              | J               | mg/kg | 0.86       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 32.5              |                 | mg/kg | 32.5       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 12.0              |                 | mg/kg | 12.0       |          | 1               | YES        | NV               |
| Copper       | Target       | 60.6              |                 | mg/kg | 60.6       |          | 1               | YES        | NV               |
| Lead         | Target       | 89.9              |                 | mg/kg | 89.9       |          | 1               | YES        | NV               |
| Manganese    | Target       | 593               |                 | mg/kg | 593        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 24.4              |                 | mg/kg | 24.4       |          | 1               | YES        | NV               |
| Selenium     | Target       | 5.4               | U               | mg/kg | 5.4        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | NV               |
| Thallium     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 30.3              |                 | mg/kg | 30.3       | D        | 2               | YES        | NV               |
| Zinc         | Target       | 297               |                 | mg/kg | 297        |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AP8L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 45.7 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11200             |                 | mg/kg | 11200      |          | 5               | YES        | NV               |
| Calcium      | Target       | 5740              |                 | mg/kg | 5740       |          | 5               | YES        | NV               |
| Iron         | Target       | 22700             |                 | mg/kg | 22700      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 5630              |                 | mg/kg | 5630       |          | 5               | YES        | NV               |
| Potassium    | Target       | 2750              | J               | mg/kg | 2750       | J        | 5               | YES        | NV               |
| Sodium       | Target       | 5360              | U               | mg/kg | 5360       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AP8L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 45.7 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 3.1               | J               | mg/kg | 3.1        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 9.1               |                 | mg/kg | 9.1        |          | 5               | YES        | NV               |
| Barium       | Target       | 123               |                 | mg/kg | 123        |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.89              | J               | mg/kg | 0.89       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 0.93              | J               | mg/kg | 0.93       | J        | 5               | YES        | NV               |
| Chromium     | Target       | 32.9              |                 | mg/kg | 32.9       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 12.4              |                 | mg/kg | 12.4       |          | 5               | YES        | NV               |
| Copper       | Target       | 62.7              |                 | mg/kg | 62.7       |          | 5               | YES        | NV               |
| Lead         | Target       | 105               |                 | mg/kg | 105        | X*       | 5               | YES        | NV               |
| Manganese    | Target       | 580               |                 | mg/kg | 580        | D        | 10              | YES        | NV               |
| Nickel       | Target       | 25.3              |                 | mg/kg | 25.3       |          | 5               | YES        | NV               |
| Selenium     | Target       | 27.1              | U               | mg/kg | 27.1       | U        | 5               | YES        | NV               |
| Silver       | Target       | 5.4               | U               | mg/kg | 5.4        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 5.4               | U               | mg/kg | 5.4        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 34.1              | J               | mg/kg | 34.1       | JD       | 10              | YES        | NV               |
| Zinc         | Target       | 306               |                 | mg/kg | 306        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AP8S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids: 45.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AP8S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                          | % Solids: 45.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 20.5              |                 | mg/kg | 20.5       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 16.4              |                 | mg/kg | 16.4       |          | 1               | YES        | NV               |
| Barium       | Spike        | 509               |                 | mg/kg | 509        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 11.3              |                 | mg/kg | 11.3       |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 11.7              |                 | mg/kg | 11.7       |          | 1               | YES        | NV               |
| Chromium     | Spike        | 73.6              |                 | mg/kg | 73.6       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 111               |                 | mg/kg | 111        |          | 1               | YES        | NV               |
| Copper       | Spike        | 113               |                 | mg/kg | 113        |          | 1               | YES        | NV               |
| Lead         | Spike        | 94.7              |                 | mg/kg | 94.7       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 692               |                 | mg/kg | 692        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 128               |                 | mg/kg | 128        |          | 1               | YES        | NV               |
| Selenium     | Spike        | 21.8              |                 | mg/kg | 21.8       |          | 1               | YES        | NV               |
| Silver       | Spike        | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 132               |                 | mg/kg | 132        | D        | 2               | YES        | NV               |
| Zinc         | Spike        | 393               |                 | mg/kg | 393        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                           | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                               | % Solids: 37.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                       | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                           | % Solids: 37.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10800             |                 | mg/kg | 10800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4710              |                 | mg/kg | 4710       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24300             |                 | mg/kg | 24300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4170              |                 | mg/kg | 4170       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1470              |                 | mg/kg | 1470       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 1270              | U               | mg/kg | 1270       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                      | Sample Date: 10/05/2020 | Sample Time: 10:30:00 |
| % Moisture:                    |                          | % Solids: 37.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.5               | U               | mg/kg | 0.71       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 97.0              |                 | mg/kg | 97.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.78              | J               | mg/kg | 0.78       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.1               | J               | mg/kg | 1.1        | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 28.9              |                 | mg/kg | 28.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 51.8              |                 | mg/kg | 51.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 61.1              |                 | mg/kg | 61.1       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 457               |                 | mg/kg | 457        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 6.2               | U               | mg/kg | 6.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.36              | J               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 19.5              |                 | mg/kg | 19.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 215               |                 | mg/kg | 215        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AQ7

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-13

pH: 2.

Sample Date: 10/06/2020

Sample Time: 09:10:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.82              |                 | ug/L  | 0.82       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ7          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13 | pH: 2.                   | Sample Date: 10/06/2020 | Sample Time: 09:10:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | ug/L  | 13.4       | J        | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.78       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 0.91       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 49.7              |                 | ug/L  | 49.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 24400             |                 | ug/L  | 24400      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.43       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.31       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.6               |                 | ug/L  | 2.6        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 445               |                 | ug/L  | 445        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 0.28       | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 9730              |                 | ug/L  | 9730       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 56.4              |                 | ug/L  | 56.4       | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 2.0               |                 | ug/L  | 2.0        | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3800              |                 | ug/L  | 3800       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 30500             |                 | ug/L  | 30500      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 6.7               |                 | ug/L  | 6.7        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AQ8

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location: NL-2020-SW-14

pH: 2.

Sample Date: 10/06/2020

Sample Time: 08:15:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.81              |                 | ug/L  | 0.81       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ8          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-14 | pH: 2.                   | Sample Date: 10/06/2020 | Sample Time: 08:15:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 40.5              |                 | ug/L  | 40.5       |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.60       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.1               |                 | ug/L  | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 48.7              |                 | ug/L  | 48.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 24400             |                 | ug/L  | 24400      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.53       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.25       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.8               |                 | ug/L  | 2.8        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 446               |                 | ug/L  | 446        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 0.97       | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 9660              |                 | ug/L  | 9660       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 51.2              |                 | ug/L  | 51.2       | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.9               |                 | ug/L  | 1.9        | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3770              |                 | ug/L  | 3770       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 30100             |                 | ug/L  | 30100      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 7.5               |                 | ug/L  | 7.5        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ9          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-15 | pH: 2.                        | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.81              |                 | ug/L  | 0.81       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ9          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-15 | pH: 2.                   | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 39.1              |                 | ug/L  | 39.1       |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.87       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.1               |                 | ug/L  | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 56.6              |                 | ug/L  | 56.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 26200             |                 | ug/L  | 26200      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.44       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.28       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.3               |                 | ug/L  | 2.3        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 528               |                 | ug/L  | 528        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 0.74       | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 9750              | J               | ug/L  | 9750       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 81.1              | J               | ug/L  | 81.1       | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 2.5               | J               | ug/L  | 2.5        | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3780              |                 | ug/L  | 3780       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 28900             | J               | ug/L  | 28900      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 6.6               |                 | ug/L  | 6.6        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

Sample Number: MC0AQ9D

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location:

pH: 2.

Sample Date: 10/06/2020

Sample Time: 07:40:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.82              |                 | mg/L  | 0.82       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ9D | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 40.4              |                 | mg/L  | 40.4       |          | 1               | YES        | NV               |
| Antimony     | Target       | 0.67              | J               | mg/L  | 0.67       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 1.2               |                 | mg/L  | 1.2        |          | 1               | YES        | NV               |
| Barium       | Target       | 55.1              |                 | mg/L  | 55.1       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Cadmium      | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Calcium      | Target       | 25800             |                 | mg/L  | 25800      |          | 1               | YES        | NV               |
| Chromium     | Target       | 0.51              | J               | mg/L  | 0.51       | J        | 1               | YES        | NV               |
| Cobalt       | Target       | 0.26              | J               | mg/L  | 0.26       | J        | 1               | YES        | NV               |
| Copper       | Target       | 2.3               |                 | mg/L  | 2.3        |          | 1               | YES        | NV               |
| Iron         | Target       | 534               |                 | mg/L  | 534        |          | 1               | YES        | NV               |
| Lead         | Target       | 0.72              | J               | mg/L  | 0.72       | J        | 1               | YES        | NV               |
| Magnesium    | Target       | 9820              |                 | mg/L  | 9820       |          | 1               | YES        | NV               |
| Manganese    | Target       | 82.6              |                 | mg/L  | 82.6       |          | 1               | YES        | NV               |
| Nickel       | Target       | 4.4               |                 | mg/L  | 4.4        | *        | 1               | YES        | NV               |
| Potassium    | Target       | 3730              |                 | mg/L  | 3730       |          | 1               | YES        | NV               |
| Selenium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 1               | YES        | NV               |
| Silver       | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Sodium       | Target       | 29000             |                 | mg/L  | 29000      |          | 1               | YES        | NV               |
| Thallium     | Target       | 1.0               | U               | mg/L  | 1.0        | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 1               | YES        | NV               |
| Zinc         | Target       | 6.4               |                 | mg/L  | 6.4        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                          |               |              |
|------------------------|--------------------------|---------------|--------------|
| Sample Number: MC0AQ9L | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                   | Sample Date:  | Sample Time: |
| % Moisture:            |                          | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 46.1              | J               | mg/L  | 46.1       | J        | 5               | YES        | NV               |
| Antimony     | Target       | 3.6               | J               | mg/L  | 3.6        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 1.7               | J               | mg/L  | 1.7        | J        | 5               | YES        | NV               |
| Barium       | Target       | 59.8              |                 | mg/L  | 59.8       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Calcium      | Target       | 28400             |                 | mg/L  | 28400      |          | 5               | YES        | NV               |
| Chromium     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Cobalt       | Target       | 1.0               | J               | mg/L  | 1.0        | J        | 5               | YES        | NV               |
| Copper       | Target       | 3.4               | J               | mg/L  | 3.4        | J        | 5               | YES        | NV               |
| Iron         | Target       | 612               | J               | mg/L  | 612        | J        | 5               | YES        | NV               |
| Lead         | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Magnesium    | Target       | 11100             |                 | mg/L  | 11100      | X*       | 5               | YES        | NV               |
| Manganese    | Target       | 95.8              |                 | mg/L  | 95.8       | X*       | 5               | YES        | NV               |
| Nickel       | Target       | 2.5               | J               | mg/L  | 2.5        | J        | 5               | YES        | NV               |
| Potassium    | Target       | 4150              |                 | mg/L  | 4150       |          | 5               | YES        | NV               |
| Selenium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Silver       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Sodium       | Target       | 32100             |                 | mg/L  | 32100      | X*       | 5               | YES        | NV               |
| Thallium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Zinc         | Target       | 7.8               | J               | mg/L  | 7.8        | J        | 5               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ9S | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                        | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 1.7               |                 | mg/L  | 1.7        |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49088/EPW15007/MC0AP6

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AQ9S | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location:       | pH: 2.                   | Sample Date: 10/06/2020 | Sample Time: 07:40:00 |
| % Moisture:            |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 89.7              |                 | mg/L  | 89.7       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 37.0              |                 | mg/L  | 37.0       |          | 1               | YES        | NV               |
| Barium       | Spike        | 1870              |                 | mg/L  | 1870       |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 48.7              |                 | mg/L  | 48.7       |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 50.6              |                 | mg/L  | 50.6       |          | 1               | YES        | NV               |
| Chromium     | Spike        | 180               |                 | mg/L  | 180        |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 456               |                 | mg/L  | 456        |          | 1               | YES        | NV               |
| Copper       | Spike        | 235               |                 | mg/L  | 235        |          | 1               | YES        | NV               |
| Lead         | Spike        | 21.5              |                 | mg/L  | 21.5       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 533               |                 | mg/L  | 533        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 467               |                 | mg/L  | 467        |          | 1               | YES        | NV               |
| Selenium     | Spike        | 97.8              |                 | mg/L  | 97.8       |          | 1               | YES        | NV               |
| Silver       | Spike        | 39.3              |                 | mg/L  | 39.3       |          | 1               | YES        | NV               |
| Thallium     | Spike        | 49.3              |                 | mg/L  | 49.3       |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 447               |                 | mg/L  | 447        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 473               |                 | mg/L  | 473        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR3          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-01 | pH: 2.                        | Sample Date: 10/05/2020 | Sample Time: 11:55:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.85              |                 | ug/L  | 0.85       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR3          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-01 | pH: 2.                   | Sample Date: 10/05/2020 | Sample Time: 11:55:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 620               |                 | ug/L  | 620        |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 0.42       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 137               |                 | ug/L  | 137        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 0.57       | J        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 18600             |                 | ug/L  | 18600      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.88       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 89.9              |                 | ug/L  | 89.9       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.8               |                 | ug/L  | 6.8        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 769               |                 | ug/L  | 769        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 4.9               |                 | ug/L  | 4.9        |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 15000             |                 | ug/L  | 15000      | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 2270              |                 | ug/L  | 2270       | DX*      | 5               | YES        | S4VEM            |
| Nickel       | Target       | 23.8              |                 | ug/L  | 23.8       | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2180              |                 | ug/L  | 2180       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 68900             |                 | ug/L  | 68900      | DX*      | 5               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 0.84       | J        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 21.5              |                 | ug/L  | 21.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR8          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 2.                        | Sample Date: 10/05/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.90              |                 | ug/L  | 0.90       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AR8          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 2.                   | Sample Date: 10/05/2020 | Sample Time: 08:55:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 241               |                 | ug/L  | 241        |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 0.33       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 45.4              |                 | ug/L  | 45.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 15100             |                 | ug/L  | 15100      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 1.1        | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.1              |                 | ug/L  | 10.1       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.7               |                 | ug/L  | 2.7        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 597               |                 | ug/L  | 597        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 0.37       | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 10400             |                 | ug/L  | 10400      | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 424               |                 | ug/L  | 424        | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.2              |                 | ug/L  | 11.2       | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1070              |                 | ug/L  | 1070       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 15200             |                 | ug/L  | 15200      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 14.9              |                 | ug/L  | 14.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AT4          | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 2.                        | Sample Date: 10/05/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.87              |                 | ug/L  | 0.87       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AT4          | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-GW-06 | pH: 2.                   | Sample Date: 10/05/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 64.5              |                 | ug/L  | 64.5       |          | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 0.15       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 44.3              |                 | ug/L  | 44.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 15400             |                 | ug/L  | 15400      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.65       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.7               |                 | ug/L  | 9.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.3               |                 | ug/L  | 2.3        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 200               | U               | ug/L  | 137        | J        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 10600             |                 | ug/L  | 10600      | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 428               |                 | ug/L  | 428        | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.9              |                 | ug/L  | 10.9       | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1090              |                 | ug/L  | 1090       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 15800             |                 | ug/L  | 15800      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 13.3              |                 | ug/L  | 13.3       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AT5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                           | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                               | % Solids: 33.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.35              |                 | mg/kg | 0.35       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AT5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                       | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                           | % Solids: 33.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11700             |                 | mg/kg | 11700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4950              |                 | mg/kg | 4950       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 26500             |                 | mg/kg | 26500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4480              |                 | mg/kg | 4480       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1590              |                 | mg/kg | 1590       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 1450              | U               | mg/kg | 1450       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AT5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SD-21 | pH:                      | Sample Date: 10/05/2020 | Sample Time: 16:00:00 |
| % Moisture:                    |                          | % Solids: 33.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.8               | U               | mg/kg | 0.75       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 111               |                 | mg/kg | 111        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.88              | J               | mg/kg | 0.88       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.2               | J               | mg/kg | 1.2        | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 33.2              |                 | mg/kg | 33.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 56.9              |                 | mg/kg | 56.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 69.0              |                 | mg/kg | 69.0       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 428               |                 | mg/kg | 428        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 18.8              |                 | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 7.0               | U               | mg/kg | 7.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.4               | U               | mg/kg | 1.4        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.6              |                 | mg/kg | 21.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 241               |                 | mg/kg | 241        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                   |                               |                         |                       |
|-----------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW2             | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13-01 | pH: 2.                        | Sample Date: 10/06/2020 | Sample Time: 12:00:00 |
| % Moisture:                       |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.096      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                                   |                          |                         |                       |
|-----------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW2             | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NL-2020-SW-13-01 | pH: 2.                   | Sample Date: 10/06/2020 | Sample Time: 12:00:00 |
| % Moisture:                       |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | ug/L  | 14.9       | J        | 1               | YES        | S4VEM            |
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.42       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.1               |                 | ug/L  | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 48.2              |                 | ug/L  | 48.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 24200             |                 | ug/L  | 24200      |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.50       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 0.27       | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.5               |                 | ug/L  | 2.5        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 457               |                 | ug/L  | 457        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 0.32       | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 9640              |                 | ug/L  | 9640       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 57.4              |                 | ug/L  | 57.4       | X*       | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.9               |                 | ug/L  | 1.9        | *        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3770              |                 | ug/L  | 3770       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 30200             |                 | ug/L  | 30200      | X*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 6.6               |                 | ug/L  | 6.6        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS691 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS718 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.23              | J               | mg/kg | 0.23       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL32 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBW719 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | ug/L  | 20.0       | U        | 1               | YES        | S4VEM            |
| Antimony     | Target       | 0.51              | J               | ug/L  | 0.51       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | ug/L  | 500        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBWL31 | Method: Mercury by Cold Vapor | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | J               | ug/L  | 0.13       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW15007/MC0AP6

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 12/9/2020  
SUBJECT: Region III Data QA Review  
FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49088; SDG# PC0AL1 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1120027





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 8, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Dioxin/Furan Data Validation (S4VEM)  
Norwood Landfill  
49088 PC0AL1

### Overview

This data package consisted of three (3) soil samples for analysis of tetra through octa chlorinated dibenzo-p-dioxins (CDDs) and chlorinated dibenzofurans (CDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS). The sample set included one (1) field duplicate pair.

Analyses were performed by Analytical Resources, Inc. (ARI) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) HRSM01.2.

Data were validated according to the National Functional Guidelines for High Resolution Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated November 11, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Less significant data quality outlier requiring estimation of sample result was identified including, but not limited to, ion abundance ratio outside control limit and results exceeding the upper calibration limit.

**Minor Problem**

The laboratory reported ion abundance ratios outside the theoretical criteria (within  $\pm 15\%$ ) for the following analytes in the samples listed below. Reported results for these target analytes are the Estimated Maximum Possible Concentration (EMPC) and have been qualified "Z" by the validator. These values are not included in the Toxicity Equivalent (TEQ) results.

| Sample | Analyte  |
|--------|--|
| PC0AL1 | 2,3,7,8-TCDD, 1,2,3,7,8-PeCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF                      |
| PC0AS4 | 2,3,7,8-TCDD, 2,3,4,7,8-PeCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,7,8,9-HpCDF |
| PC0AS5 | 2,3,7,8-TCDD, 2,3,4,7,8-PeCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,4,7,8,9-HpCDF                    |

Detected results for the OCDD in samples PC0AL1, PC0AS4, and PC0AS5 exceeded the upper limit of the calibration range. Further dilution for OCDD/OCDF is not required according to HRSM01.2. The result for these analytes in these samples are estimated and have been qualified "J".

**Notes**

Target analyte detected concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

All derived total homologue values are considered estimated and have been qualified "J" or "UJ".

TEQ and total homologue results reported by the laboratory are derived using sample data prior to evaluation for blank contamination and according to the HRSM01.2 Statement of Work requirements. Totals and TEQs have not been recalculated by the validator. No action was taken by the validator based on this finding.

The laboratory identified some analytes with an Estimated Detection Limit (EDL) less than the sample adjusted Method Detection Limit (MDL), qualified by laboratory as "UM". Values for these target analytes were reported at the sample adjusted MDL per HRSM01.2. No data were qualified based on this finding.

No second column confirmation was required for 2,3,7,8-TCDF as the [RTX-Dioxin2] analytical column used by the laboratory provides sufficient resolution. Documentation supporting this laboratory determination is provided within the data package.

The method blank was free from contamination except for OCDD reported at  $< 3 \times$  CRQL. Sample results for OCDD were  $>$  CRQL and  $>$  blank result. No data were qualified due to method blank contamination.

Accuracy and precision criteria were met by the laboratory in the initial and continuing calibration verification standard analyses associated with the samples in this SDG.

Percent recoveries and Relative Percent Differences (RPDs) in Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analysis were within control limits. No data were qualified based on LCS/LCSD precision or accuracy.

Recoveries of all labeled and cleanup standards were within the control limits for all analyses.

Results reported for field duplicate pair PCOAS4/PCOAS5 were comparable except 2,3,7,8-TCDF. No data were qualified based on field duplicate precision.

The laboratory noted that samples PCOAL1, PCOAS4, and PCOAS5 contained clay and clumps, making them difficult to homogenize.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and had been found to be accurate and consistent. No action was taken based on manual integrations.

Sample calculation checks were performed on sample PCOAL1. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

#### **Glossary of Data Qualifier Codes**

|    |   |
|----|---|
| U  | The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.  |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |
| B  | The result is presumed a blank contaminant. This qualifier is used only for drinking water samples.   |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.   |
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.   |
| Z  | The isomer was identified with an ion ratio outside the 15% theoretical ion abundance ratio; the associated numerical value is reported as the Estimated Maximum Possible Concentration (EMPC) and is considered estimated. |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

|                       |                |               |              |
|-----------------------|----------------|---------------|--------------|
| Sample Number: DBLK30 | Method: Dioxin | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:            | Sample Date:  | Sample Time: |
| % Moisture:           |                | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 2,3,7,8-TCDD        | Target       | 0.14              | U               | ng/kg | 0.14       | UM       | 1.0             | YES        | NV               |
| 1,2,3,7,8-PeCDD     | Target       | 0.18              | U               | ng/kg | 0.18       | UM       | 1.0             | YES        | NV               |
| 1,2,3,4,7,8-HxCDD   | Target       | 0.18              | U               | ng/kg | 0.18       | UM       | 1.0             | YES        | NV               |
| 1,2,3,6,7,8-HxCDD   | Target       | 0.15              | U               | ng/kg | 0.15       | UM       | 1.0             | YES        | NV               |
| 1,2,3,7,8,9-HxCDD   | Target       | 0.22              | U               | ng/kg | 0.22       | UM       | 1.0             | YES        | NV               |
| 1,2,3,4,6,7,8-HpCDD | Target       | 0.56              | U               | ng/kg | 0.56       | UM       | 1.0             | YES        | NV               |
| OCDD                | Target       | 4.4               | J               | ng/kg | 4.4        | J        | 1.0             | YES        | NV               |
| 2,3,7,8-TCDF        | Target       | 0.097             | U               | ng/kg | 0.097      | U        | 1.0             | YES        | NV               |
| 1,2,3,7,8-PeCDF     | Target       | 0.15              | U               | ng/kg | 0.15       | UM       | 1.0             | YES        | NV               |
| 2,3,4,7,8-PeCDF     | Target       | 0.15              | U               | ng/kg | 0.15       | UM       | 1.0             | YES        | NV               |
| 1,2,3,4,7,8-HxCDF   | Target       | 0.14              | U               | ng/kg | 0.14       | UM       | 1.0             | YES        | NV               |
| 1,2,3,6,7,8-HxCDF   | Target       | 0.18              | U               | ng/kg | 0.18       | UM       | 1.0             | YES        | NV               |
| 1,2,3,7,8,9-HxCDF   | Target       | 0.21              | U               | ng/kg | 0.21       | UM       | 1.0             | YES        | NV               |
| 2,3,4,6,7,8-HxCDF   | Target       | 0.11              | U               | ng/kg | 0.11       | UM       | 1.0             | YES        | NV               |
| 1,2,3,4,6,7,8-HpCDF | Target       | 0.21              | U               | ng/kg | 0.21       | UM       | 1.0             | YES        | NV               |
| 1,2,3,4,7,8,9-HpCDF | Target       | 0.16              | U               | ng/kg | 0.16       | UM       | 1.0             | YES        | NV               |
| OCDF                | Target       | 1.1               | U               | ng/kg | 1.1        | UM       | 1.0             | YES        | NV               |
| Total TCDD          | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total PeCDD         | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total HxCDD         | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total HpCDD         | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total TCDF          | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total PeCDF         | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total HxCDF         | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| Total HpCDF         | Derived      |                   | UJ              |       |            | U        | 1.0             | YES        | NV               |
| TEQ (Mammal)        | Derived      | 0.0013            |                 | ng/kg | 0.0013     |          | 1.0             | YES        | NV               |
| TEQ (Bird)          | Derived      | 0.00044           |                 | ng/kg | 0.00044    |          | 1.0             | YES        | NV               |
| TEQ (Fish)          | Derived      | 0.00044           |                 | ng/kg | 0.00044    |          | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

|                       |                |               |              |
|-----------------------|----------------|---------------|--------------|
| Sample Number: DLCS30 | Method: Dioxin | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:            | Sample Date:  | Sample Time: |
| % Moisture:           |                | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 2,3,7,8-TCDD        | Spike        | 21                |                 | ng/kg | 21         |          | 1.0             | YES        | NV               |
| 1,2,3,7,8-PeCDD     | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,7,8-HxCDD   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,6,7,8-HxCDD   | Spike        | 100               |                 | ng/kg | 100        |          | 1.0             | YES        | NV               |
| 1,2,3,7,8,9-HxCDD   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,6,7,8-HpCDD | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| OCDD                | Spike        | 230               | B               | ng/kg | 230        | B        | 1.0             | YES        | NV               |
| 2,3,7,8-TCDF        | Spike        | 21                |                 | ng/kg | 21         |          | 1.0             | YES        | NV               |
| 1,2,3,7,8-PeCDF     | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 2,3,4,7,8-PeCDF     | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,7,8-HxCDF   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,6,7,8-HxCDF   | Spike        | 95                |                 | ng/kg | 95         |          | 1.0             | YES        | NV               |
| 1,2,3,7,8,9-HxCDF   | Spike        | 120               |                 | ng/kg | 120        |          | 1.0             | YES        | NV               |
| 2,3,4,6,7,8-HxCDF   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,6,7,8-HpCDF | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,7,8,9-HpCDF | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| OCDF                | Spike        | 200               |                 | ng/kg | 200        |          | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

|                        |                |               |              |
|------------------------|----------------|---------------|--------------|
| Sample Number: DLCSD30 | Method: Dioxin | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:            | Sample Date:  | Sample Time: |
| % Moisture:            |                | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 2,3,7,8-TCDD        | Spike        | 19                |                 | ng/kg | 19         |          | 1.0             | YES        | NV               |
| 1,2,3,7,8-PeCDD     | Spike        | 100               |                 | ng/kg | 100        |          | 1.0             | YES        | NV               |
| 1,2,3,4,7,8-HxCDD   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,6,7,8-HxCDD   | Spike        | 100               |                 | ng/kg | 100        |          | 1.0             | YES        | NV               |
| 1,2,3,7,8,9-HxCDD   | Spike        | 100               |                 | ng/kg | 100        |          | 1.0             | YES        | NV               |
| 1,2,3,4,6,7,8-HpCDD | Spike        | 120               |                 | ng/kg | 120        |          | 1.0             | YES        | NV               |
| OCDD                | Spike        | 200               |                 | ng/kg | 200        | B        | 1.0             | YES        | NV               |
| 2,3,7,8-TCDF        | Spike        | 22                |                 | ng/kg | 22         |          | 1.0             | YES        | NV               |
| 1,2,3,7,8-PeCDF     | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 2,3,4,7,8-PeCDF     | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,7,8-HxCDF   | Spike        | 120               |                 | ng/kg | 120        |          | 1.0             | YES        | NV               |
| 1,2,3,6,7,8-HxCDF   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,7,8,9-HxCDF   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 2,3,4,6,7,8-HxCDF   | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,6,7,8-HpCDF | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| 1,2,3,4,7,8,9-HpCDF | Spike        | 110               |                 | ng/kg | 110        |          | 1.0             | YES        | NV               |
| OCDF                | Spike        | 200               |                 | ng/kg | 200        |          | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

|                                |                |                         |                       |
|--------------------------------|----------------|-------------------------|-----------------------|
| Sample Number: PC0AL1          | Method: Dioxin | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-36 | pH:            | Sample Date: 09/30/2020 | Sample Time: 11:00:00 |
| % Moisture:                    |                | % Solids: 84.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 2,3,7,8-TCDD        | Target       | 0.59              | Z               | ng/kg | 0.59       | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8-PeCDD     | Target       | 1.4               | J               | ng/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8-HxCDD   | Target       | 1.3               | J               | ng/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,6,7,8-HxCDD   | Target       | 3.9               | J               | ng/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8,9-HxCDD   | Target       | 2.8               | J               | ng/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,6,7,8-HpCDD | Target       | 230               |                 | ng/kg | 230        |          | 1.0             | YES        | S4VEM            |
| OCDD                | Target       | 12000             | J               | ng/kg | 12000      | BE       | 1.0             | YES        | S4VEM            |
| 2,3,7,8-TCDF        | Target       | 3.0               |                 | ng/kg | 3.0        |          | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8-PeCDF     | Target       | 1.0               | Z               | ng/kg | 1.0        | X*       | 1.0             | YES        | S4VEM            |
| 2,3,4,7,8-PeCDF     | Target       | 2.1               | J               | ng/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8-HxCDF   | Target       | 1.8               | J               | ng/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,6,7,8-HxCDF   | Target       | 1.1               | J               | ng/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8,9-HxCDF   | Target       | 0.97              | Z               | ng/kg | 0.97       | *        | 1.0             | YES        | S4VEM            |
| 2,3,4,6,7,8-HxCDF   | Target       | 1.7               | Z               | ng/kg | 1.7        | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,6,7,8-HpCDF | Target       | 30                |                 | ng/kg | 30         |          | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8,9-HpCDF | Target       | 1.4               | J               | ng/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| OCDF                | Target       | 64                |                 | ng/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Total TCDD          | Derived      | 1.9               | J               | ng/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Total PeCDD         | Derived      | 5.2               | J               | ng/kg | 5.2        | J        | 1.0             | YES        | S4VEM            |
| Total HxCDD         | Derived      | 41                | J               | ng/kg | 41         | J        | 1.0             | YES        | S4VEM            |
| Total HpCDD         | Derived      | 430               | J               | ng/kg | 430        | J        | 1.0             | YES        | S4VEM            |
| Total TCDF          | Derived      | 21                | J               | ng/kg | 21         | J        | 1.0             | YES        | S4VEM            |
| Total PeCDF         | Derived      | 11                | J               | ng/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Total HxCDF         | Derived      | 27                | J               | ng/kg | 27         | J        | 1.0             | YES        | S4VEM            |
| Total HpCDF         | Derived      | 92                | J               | ng/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| TEQ (Mammal)        | Derived      | 9.7               |                 | ng/kg | 9.7        |          | 1.0             | YES        | S4VEM            |
| TEQ (Bird)          | Derived      | 8.9               |                 | ng/kg | 8.9        |          | 1.0             | YES        | S4VEM            |
| TEQ (Fish)          | Derived      | 5.4               |                 | ng/kg | 5.4        |          | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

|                                 |                |                         |                       |
|---------------------------------|----------------|-------------------------|-----------------------|
| Sample Number: PC0AS4           | Method: Dioxin | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:            | Sample Date: 09/29/2020 | Sample Time: 11:45:00 |
| % Moisture:                     |                | % Solids: 81.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 2,3,7,8-TCDD        | Target       | 0.35              | Z               | ng/kg | 0.35       | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8-PeCDD     | Target       | 1.1               | J               | ng/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8-HxCDD   | Target       | 0.95              | J               | ng/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,6,7,8-HxCDD   | Target       | 2.2               | J               | ng/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8,9-HxCDD   | Target       | 2.4               | J               | ng/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,6,7,8-HpCDD | Target       | 91                |                 | ng/kg | 91         |          | 1.0             | YES        | S4VEM            |
| OCDD                | Target       | 8400              | J               | ng/kg | 8400       | BE       | 1.0             | YES        | S4VEM            |
| 2,3,7,8-TCDF        | Target       | 1.7               |                 | ng/kg | 1.7        |          | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8-PeCDF     | Target       | 0.84              | J               | ng/kg | 0.84       | JX       | 1.0             | YES        | S4VEM            |
| 2,3,4,7,8-PeCDF     | Target       | 1.6               | Z               | ng/kg | 1.6        | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8-HxCDF   | Target       | 1.3               | J               | ng/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,6,7,8-HxCDF   | Target       | 1.0               | J               | ng/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8,9-HxCDF   | Target       | 0.38              | Z               | ng/kg | 0.38       | *        | 1.0             | YES        | S4VEM            |
| 2,3,4,6,7,8-HxCDF   | Target       | 1.7               | Z               | ng/kg | 1.7        | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,6,7,8-HpCDF | Target       | 10                |                 | ng/kg | 10         |          | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8,9-HpCDF | Target       | 0.78              | Z               | ng/kg | 0.78       | *        | 1.0             | YES        | S4VEM            |
| OCDF                | Target       | 21                |                 | ng/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Total TCDD          | Derived      | 5.0               | J               | ng/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Total PeCDD         | Derived      | 6.8               | J               | ng/kg | 6.8        | J        | 1.0             | YES        | S4VEM            |
| Total HxCDD         | Derived      | 35                | J               | ng/kg | 35         | J        | 1.0             | YES        | S4VEM            |
| Total HpCDD         | Derived      | 210               | J               | ng/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Total TCDF          | Derived      | 23                | J               | ng/kg | 23         | J        | 1.0             | YES        | S4VEM            |
| Total PeCDF         | Derived      | 30                | J               | ng/kg | 30         | J        | 1.0             | YES        | S4VEM            |
| Total HxCDF         | Derived      | 19                | J               | ng/kg | 19         | J        | 1.0             | YES        | S4VEM            |
| Total HpCDF         | Derived      | 24                | J               | ng/kg | 24         | J        | 1.0             | YES        | S4VEM            |
| TEQ (Mammal)        | Derived      | 5.6               |                 | ng/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| TEQ (Bird)          | Derived      | 4.5               |                 | ng/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| TEQ (Fish)          | Derived      | 3.0               |                 | ng/kg | 3.0        |          | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

|                                 |                |                         |                       |
|---------------------------------|----------------|-------------------------|-----------------------|
| Sample Number: PC0AS5           | Method: Dioxin | Matrix: Soil            | MA Number:            |
| Sample Location: NL-2020-SS-39A | pH:            | Sample Date: 09/29/2020 | Sample Time: 12:15:00 |
| % Moisture:                     |                | % Solids: 85.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 2,3,7,8-TCDD        | Target       | 0.23              | Z               | ng/kg | 0.23       | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8-PeCDD     | Target       | 0.91              | J               | ng/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8-HxCDD   | Target       | 0.97              | J               | ng/kg | 0.97       | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,6,7,8-HxCDD   | Target       | 1.9               | J               | ng/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8,9-HxCDD   | Target       | 2.0               | J               | ng/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,6,7,8-HpCDD | Target       | 81                |                 | ng/kg | 81         |          | 1.0             | YES        | S4VEM            |
| OCDD                | Target       | 6900              | J               | ng/kg | 6900       | BE       | 1.0             | YES        | S4VEM            |
| 2,3,7,8-TCDF        | Target       | 2.5               |                 | ng/kg | 2.5        | X        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8-PeCDF     | Target       | 0.81              | J               | ng/kg | 0.81       | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,7,8-PeCDF     | Target       | 1.4               | Z               | ng/kg | 1.4        | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8-HxCDF   | Target       | 1.2               | J               | ng/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,6,7,8-HxCDF   | Target       | 1.2               | Z               | ng/kg | 1.2        | *        | 1.0             | YES        | S4VEM            |
| 1,2,3,7,8,9-HxCDF   | Target       | 0.49              | J               | ng/kg | 0.49       | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6,7,8-HxCDF   | Target       | 2.2               | J               | ng/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 1,2,3,4,6,7,8-HpCDF | Target       | 10                |                 | ng/kg | 10         |          | 1.0             | YES        | S4VEM            |
| 1,2,3,4,7,8,9-HpCDF | Target       | 0.74              | Z               | ng/kg | 0.74       | *        | 1.0             | YES        | S4VEM            |
| OCDF                | Target       | 21                |                 | ng/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Total TCDD          | Derived      | 3.6               | J               | ng/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Total PeCDD         | Derived      | 5.3               | J               | ng/kg | 5.3        | J        | 1.0             | YES        | S4VEM            |
| Total HxCDD         | Derived      | 30                | J               | ng/kg | 30         | J        | 1.0             | YES        | S4VEM            |
| Total HpCDD         | Derived      | 190               | J               | ng/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Total TCDF          | Derived      | 26                | J               | ng/kg | 26         | J        | 1.0             | YES        | S4VEM            |
| Total PeCDF         | Derived      | 38                | J               | ng/kg | 38         | J        | 1.0             | YES        | S4VEM            |
| Total HxCDF         | Derived      | 24                | J               | ng/kg | 24         | J        | 1.0             | YES        | S4VEM            |
| Total HpCDF         | Derived      | 22                | J               | ng/kg | 22         | J        | 1.0             | YES        | S4VEM            |
| TEQ (Mammal)        | Derived      | 5.0               |                 | ng/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| TEQ (Bird)          | Derived      | 5.0               |                 | ng/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| TEQ (Fish)          | Derived      | 2.9               |                 | ng/kg | 2.9        |          | 1.0             | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49088/EPW16004/PC0AL1

Lab Name: Analytical Resources, Inc.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/4/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AW4 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220016





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 21, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COAW4

### Overview

This data package consisted of nineteen (19) soil samples analyzed for semivolatile, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), pesticides, and Aroclors and thirteen (13) soil samples and one (1) trip blank analyzed for low volatiles.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 2, 2020.

### Summary

Significant dual column precision outliers were identified that resulted in rejection of sample results. Surrogate recovery, internal standard response, and concentration exceeding calibration range required qualification of results.



**Major Problem**

The following analytes had results > CRQL with Percent Difference (%D) > 200% between the dual column analyses. The large %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed below have been rejected and qualified "R".

| Fraction  | Samples | Analytes                                    |
|-----------|---------|---|
| Pesticide | COAW5   | cis-Chlordane, trans-Chlordane              |
|           | COAW7   | Heptachlor Epoxide, Endosulfan II           |
|           | COAY3   | Heptachlor Epoxide, 4,4'-DDE, Endosulfan II |
|           | COB35   | Endosulfan II                               |
|           | COB45   | trans-Chlordane                             |
|           | COBE9   | Endosulfan II                               |
|           | COBF0   | Endosulfan II                               |

**Minor Problem**

Percent recoveries for pesticide surrogate decachlorobiphenyl were outside the lower control limit for samples COAW4, COAW7, COAW8, and COB32. Detected results >CRQL for pesticides are estimated and have been qualified "J-". Quantitation limits are estimated and have been qualified "UJ".

Area responses for volatile internal standard 1,2-dichlorobenzene-d4 were outside the lower control limit for samples COAW4, COAW7, COAW8, COAY5, and COBF0. Results for samples COAY5 and COBF0 were reported from the reanalysis and results for other samples were reported from the initial analysis. The associated analytes were not detected in these samples. Quantitation limits are estimated and have been qualified "UJ".

The following analytes exceeded calibration range in the analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COAW8  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene   |
|          | COAX2  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COB35  | 5x | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene               |
|          | COB40  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COB45  | 5x | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COBE9  | 5x | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |

**Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

For the volatile fraction, method blanks VBLK62 and VBLK79 and storage blank VHBLK02 were free from contamination. Method blanks VBLK03 and VBLK31 reported detected concentrations of methylene chloride and 4-methyl-2-pentanone less than the CRQL; method blanks VBLK05 and VBLK30 and storage blank VHBLK01 reported detected concentrations of methylene chloride less than the CRQL. Detected concentrations of methylene chloride less than the CRQL in the associated samples have been reported at CRQL and qualified "U". 4-Methyl-2-pentanone was not detected in the associated samples.

Method blanks were free from contamination for other fractions.

Trip blank COBF1 reported detected concentration of 2-hexanone less than the CRQL. 2-Hexanone was not detected in the associated samples.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits except for recoveries of Aroclor-1016 and Aroclor-1260. No data were qualified based on MS/MSD accuracy and precision.

Percent recoveries for the following DMC/surrogate were outside the upper control limit for samples listed below. The associated analytes were not detected in these samples. Quantitation limits are not qualified.

| <b>Fraction</b> | <b>DMC/Surrogate</b>   | <b>Affected Samples</b> |
|-----------------|------------------------|-------------------------|
| Volatile        | 1,2-Dichloropropane-d6 | C0AW4, C0AW7, C0AW8     |
| Aroclor         | Decachlorobiphenyl     | C0B35                   |

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction  | Sample | DF   | Analyte  |
|-----------|--------|------|--|
| PAH       | COAW4  | 2x   | Fluoranthene, Benzo(b)fluoranthene   |
|           | COAW5  | 5x   | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|           | COAW8  | 5x   | Anthracene, Benzo(k)Fluoranthene, , Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene   |
|           | COAX2  | 5x   | Acenaphthene, Anthracene, Dibenzo(a,h)anthracene   |
|           | COAY3  | 5x   | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|           | COAY7  | 5x   | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|           | COB32  | 2x   | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|           | COB35  | 5x   | Phenanthrene, Dibenzo(a,h)anthracene   |
|           | COB40  | 5x   | Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene             |
|           | COB44  | 2x   | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|           | COB45  | 5x   | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                       |
|           | COBE9  | 5x   | Phenanthrene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene   |
| Pesticide | COAW7  | 2x   | Heptachlor Epoxide   |
|           |        | 20x  | cis-Chlordane, trans-Chlordane   |
|           | COAY3  | 10x  | Heptachlor, Heptachlor Epoxide   |
|           |        | 100x | cis-Chlordane, trans-Chlordane   |
|           | COB35  | 2x   | cis-Chlordane, trans-Chlordane   |
|           | COB45  | 5x   | Dieldrin   |
|           | COBE9  | 5x   | cis-Chlordane, trans-Chlordane   |
|           | COBF0  | 10x  | cis-Chlordane, trans-Chlordane   |

Chain of Custody Records (COCs) list samples COBE9 and COBF0 as field duplicate; however, COCs did not include reference regarding the identification of the corresponding samples. Therefore, no comparison was made by the validator.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COAW4. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

#### Glossary of Organic Data Qualifier Codes

| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
|-----------------------|---|
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.   |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: ABLK88

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: ALCS88

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AW4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-101

pH:

Sample Date: 11/10/2020

Sample Time: 08:55:00

% Moisture:

% Solids: 81.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-101 | pH:                | Sample Date: 11/10/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                    | % Solids: 81.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-101 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                       | % Solids: 81.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid                | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 84                | B               | ug/kg | 84         | B        | 1.0             | YES        | NV               |
| Heptafluorobutyric acid, pentadecy | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |
| Butane, 2-methoxy-2-methyl-        | TIC          | 2100              | JN              | ug/kg | 2100       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-101 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                              | % Solids: 81.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.82              | J               | ug/kg | 0.82       | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 77                |                 | ug/kg | 77         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 79                |                 | ug/kg | 79         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-101 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                           | % Solids: 81.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               |                 | ug/kg | 6.4        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AW5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-102

pH:

Sample Date: 11/11/2020

Sample Time: 08:40:00

% Moisture:

% Solids: 76.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                    | % Solids: 76.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.49              | J               | ug/kg | 0.49       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.55              | J               | ug/kg | 0.55       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 6.6               | J               | ug/kg | 6.6        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2.9               | J               | ug/kg | 2.9        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.93              | J               | ug/kg | 0.93       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.43              | J               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 5.7               |                 | ug/kg | 5.7        |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 12                | R               | ug/kg | 12         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 7.5               | R               | ug/kg | 7.5        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                       | % Solids: 76.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 82                | J               | ug/kg | 82         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Nonadecanol-1            | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                              | % Solids: 76.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 91                |                 | ug/kg | 91         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 66                |                 | ug/kg | 66         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 74                |                 | ug/kg | 74         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 81                |                 | ug/kg | 81         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                           | % Solids: 76.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 4.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AW7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-104

pH:

Sample Date: 11/10/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 69.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                    | % Solids: 69.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | J               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 15                | J               | ug/kg | 15         | P        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 48                | R               | ug/kg | 48         | DP       | 2.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 16                | J-              | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 13                | R               | ug/kg | 13         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 2.4               | J               | ug/kg | 2.4        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 7.0               | J               | ug/kg | 7.0        | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 25                | UJ              | ug/kg | 25         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 450               | J               | ug/kg | 450        | DP       | 20.0            | YES        | S4VEM            |
| trans-Chlordane     | Target       | 380               | J               | ug/kg | 380        | DP       | 20.0            | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                       | % Solids: 69.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               | U               | ug/kg | 340        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 190               | B               | ug/kg | 190        | B        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                              | % Solids: 69.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 9.7               |                 | ug/kg | 9.7        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 8.9               |                 | ug/kg | 8.9        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 69.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.5               | J               | ug/kg | 9.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 8.3               | UJ              | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AW8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-105

pH:

Sample Date: 11/10/2020

Sample Time: 11:20:00

% Moisture:

% Solids: 66.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                    | % Solids: 66.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.8               | J               | ug/kg | 2.8        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.9               | J               | ug/kg | 1.9        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 16                | J               | ug/kg | 16         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 13                | J               | ug/kg | 13         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 260               | UJ              | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                       | % Solids: 66.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 100               | U               | ug/kg | 100        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                    | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                    | Target       | 2000              |                 | ug/kg | 2000       |          | 1.0             | YES        | S4VEM            |
| Pyrene                          | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate            | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine           | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene              | Target       | 820               |                 | ug/kg | 820        |          | 1.0             | YES        | S4VEM            |
| Chrysene                        | Target       | 900               |                 | ug/kg | 900        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate      | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate            | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene            | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene            | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                  | Target       | 780               |                 | ug/kg | 780        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene          | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene          | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene            | Target       | 440               |                 | ug/kg | 440        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol       | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                      | TIC          | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | NV               |
| Total Alkanes                   | TIC          | 860               | B               | ug/kg | 860        | B        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid             | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| .gamma.-Sitosterol              | TIC          | 1100              | JN              | ug/kg | 1100       | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione            | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene                  | TIC          | 690               | JN              | ug/kg | 690        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene  | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene            | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one      | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-          | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-         | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Butane, 2-methoxy-2-methyl-     | TIC          | 3000              | JN              | ug/kg | 3000       | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-               | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Pyrene, 2-methyl-               | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-     | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone   | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-         | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| unknown-02                      | TIC          | 380               | J               | ug/kg | 380        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                              | % Solids: 66.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1800              | J               | ug/kg | 1800       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1400              | J               | ug/kg | 1400       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 830               | J               | ug/kg | 830        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 820               | J               | ug/kg | 820        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 710               | J               | ug/kg | 710        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 390               |                 | ug/kg | 390        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 410               | J               | ug/kg | 410        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                           | % Solids: 66.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 12                |                 | ug/kg | 12         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 8.0               | UJ              | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| .beta.-Phellandrene                   | TIC          | 14                | JN              | ug/kg | 14         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| (1R)-2,6,6-Trimethylbicyclo[3.1.1] | TIC          | 4.2               | JN              | ug/kg | 4.2        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AW8MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:20:00

% Moisture:

% Solids: 66.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 300               |                 | ug/kg | 300        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW8MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:            |                    | % Solids: 66.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.8               |                 | ug/kg | 2.8        | P        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 2.9               | J               | ug/kg | 2.9        | JP       | 1.0             | YES        | NV               |
| Endrin              | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 17                |                 | ug/kg | 17         | P        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 13                |                 | ug/kg | 13         | P        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name: NORWOOD LANDFILL Project**

**GroupID: 49167/EPW14030/C0AW4**

**Lab Name: Chemtech Consulting Group**

|                         |                  |                         |                       |
|-------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AW8MSD | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:              | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:             |                  | % Solids: 66.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 300               |                 | ug/kg | 300        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW8MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:             |                    | % Solids: 66.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.7               |                 | ug/kg | 2.7        | P        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 2.9               | J               | ug/kg | 2.9        | JP       | 1.0             | YES        | NV               |
| Endrin              | Spike        | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 13                |                 | ug/kg | 13         | P        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 8.9               |                 | ug/kg | 8.9        | P        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AW4

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AX2        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-109 | pH:              | Sample Date: 11/10/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                  | % Solids: 81.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-109 | pH:                | Sample Date: 11/10/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                    | % Solids: 81.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.5               | J               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 2.6               | J               | ug/kg | 2.6        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.88              | J               | ug/kg | 0.88       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-109 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                       | % Solids: 81.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                    | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                    | Target       | 2100              |                 | ug/kg | 2100       |          | 1.0             | YES        | S4VEM            |
| Pyrene                          | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate            | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene              | Target       | 800               |                 | ug/kg | 800        |          | 1.0             | YES        | S4VEM            |
| Chrysene                        | Target       | 920               |                 | ug/kg | 920        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate      | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate            | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene            | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene            | Target       | 470               |                 | ug/kg | 470        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                  | Target       | 850               |                 | ug/kg | 850        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene          | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene          | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene            | Target       | 550               |                 | ug/kg | 550        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                      | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| Total Alkanes                   | TIC          | 320               | B               | ug/kg | 320        | B        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione            | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene                  | TIC          | 850               | JN              | ug/kg | 850        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene  | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene            | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one      | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-          | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-         | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Butane, 2-methoxy-2-methyl-     | TIC          | 2100              | JN              | ug/kg | 2100       | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-         | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-     | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone   | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one      | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-109 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                              | % Solids: 81.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 58                |                 | ug/kg | 58         | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 62                |                 | ug/kg | 62         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 2000              | J               | ug/kg | 2000       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1700              | J               | ug/kg | 1700       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 900               | J               | ug/kg | 900        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 850               | J               | ug/kg | 850        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 340               | J               | ug/kg | 340        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 790               | J               | ug/kg | 790        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 500               | J               | ug/kg | 500        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-109 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                           | % Solids: 81.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               |                 | ug/kg | 6.4        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AX6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-113

pH:

Sample Date: 11/10/2020

Sample Time: 13:50:00

% Moisture:

% Solids: 79.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                    | % Solids: 79.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.58              | J               | ug/kg | 0.58       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.41              | J               | ug/kg | 0.41       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.74              | J               | ug/kg | 0.74       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.25              | J               | ug/kg | 0.25       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                       | % Solids: 79.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 170               | B               | ug/kg | 170        | B        | 1.0             | YES        | NV               |
| n-Tetracosanol-1           | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                              | % Solids: 79.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.95              | J               | ug/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.86              | J               | ug/kg | 0.86       | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                           | % Solids: 79.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 7.3               | J               | ug/kg | 7.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AX7        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:              | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                  | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:                | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                    | % Solids: 77.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.3               | J               | ug/kg | 5.3        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                       | % Solids: 77.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| Butane, 2-methoxy-2-methyl-        | TIC          | 1700              | JN              | ug/kg | 1700       | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 250               | B               | ug/kg | 250        | B        | 1.0             | YES        | NV               |
| Methadone N-oxide                  | TIC          | 290               | JN              | ug/kg | 290        | JN       | 1.0             | YES        | NV               |
| 1-Propene, 3-(2-cyclopentenyl)-2-m | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| (2,3-Diphenylcyclopropyl)methyl ph | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Trichloroacetic acid, hexadecyl es | TIC          | 590               | JN              | ug/kg | 590        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                              | % Solids: 77.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.99              | J               | ug/kg | 0.99       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.93              | J               | ug/kg | 0.93       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 6.1               |                 | ug/kg | 6.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                           | % Solids: 77.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.8               | J               | ug/kg | 9.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.8               |                 | ug/kg | 8.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.76              | J               | ug/kg | 0.76       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Ethanol      | TIC          | 3.6               | JN              | ug/kg | 3.6        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AY3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-120

pH:

Sample Date: 11/11/2020

Sample Time: 09:30:00

% Moisture:

% Solids: 81.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                    | % Solids: 81.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 39                |                 | ug/kg | 39         | D        | 10.0            | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 210               | R               | ug/kg | 210        | DP       | 10.0            | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 25                | R               | ug/kg | 25         | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 25                | R               | ug/kg | 25         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.3               | J               | ug/kg | 3.3        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 16                | J               | ug/kg | 16         | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2600              | J               | ug/kg | 2600       | DP       | 100.0           | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2300              |                 | ug/kg | 2300       | D        | 100.0           | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                       | % Solids: 81.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 410               | B               | ug/kg | 410        | B        | 1.0             | YES        | NV               |
| unknown-04                         | TIC          | 320               | J               | ug/kg | 320        | J        | 1.0             | YES        | NV               |
| unknown-06                         | TIC          | 460               | J               | ug/kg | 460        | J        | 1.0             | YES        | NV               |
| Chlordane                          | TIC          | 1200              | JN              | ug/kg | 1200       | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,4,6,7-tetrachloro-  | TIC          | 290               | JN              | ug/kg | 290        | JN       | 1.0             | YES        | NV               |
| 1-Perchloroethenyl-4-ethynylbenzen | TIC          | 2300              | JN              | ug/kg | 2300       | JN       | 1.0             | YES        | NV               |
| Chlordene, .alpha.- (cis)          | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| unknown-05                         | TIC          | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                              | % Solids: 81.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 88                |                 | ug/kg | 88         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 65                |                 | ug/kg | 65         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 57                |                 | ug/kg | 57         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 65                |                 | ug/kg | 65         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 62                |                 | ug/kg | 62         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 81.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 6.3               | J               | ug/kg | 6.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.6               |                 | ug/kg | 5.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.77              | J               | ug/kg | 0.77       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AY5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-122

pH:

Sample Date: 11/11/2020

Sample Time: 10:05:00

% Moisture:

% Solids: 63.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 52                | U               | ug/kg | 52         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                    | % Solids: 63.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.29              | J               | ug/kg | 0.29       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.55              | J               | ug/kg | 0.55       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.2               | J               | ug/kg | 4.2        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                       | % Solids: 63.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 400               |                 | ug/kg | 400        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 520               | U               | ug/kg | 520        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Tridecanoic acid           | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| n-Tetracosanol-1           | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                              | % Solids: 63.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 74                |                 | ug/kg | 74         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 78                |                 | ug/kg | 78         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 76                |                 | ug/kg | 76         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                           | % Solids: 63.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 7.2               | J               | ug/kg | 7.2        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 8.8               | UJ              | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AW4

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AY7        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:              | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                  | % Solids: 84.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                    | % Solids: 84.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.57              | J               | ug/kg | 0.57       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 8.7               |                 | ug/kg | 8.7        |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.3               | J               | ug/kg | 4.3        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | J               | ug/kg | 2.2        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                       | % Solids: 84.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 180               | B               | ug/kg | 180        | B        | 1.0             | YES        | NV               |
| Tridecanoic acid           | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                              | % Solids: 84.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 65                |                 | ug/kg | 65         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 70                |                 | ug/kg | 70         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 72                |                 | ug/kg | 72         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 98                |                 | ug/kg | 98         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 68                |                 | ug/kg | 68         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                           | % Solids: 84.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.4               | J               | ug/kg | 5.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.5               |                 | ug/kg | 9.5        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AZ0        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:              | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                  | % Solids: 77.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                    | % Solids: 77.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.68              | J               | ug/kg | 0.68       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                       | % Solids: 77.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 520               | J               | ug/kg | 520        | J        | 1.0             | YES        | NV               |
| Bornyl acetate                     | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| .alpha.-Pinene                     | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 130               | B               | ug/kg | 130        | B        | 1.0             | YES        | NV               |
| 2-Carene                           | TIC          | 360               | JN              | ug/kg | 360        | JN       | 1.0             | YES        | NV               |
| Bicyclo[3.1.0]hexane, 4-methylene- | TIC          | 680               | JN              | ug/kg | 680        | JN       | 1.0             | YES        | NV               |
| Cyclohexene, 1-methyl-4-(1-methyle | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| .beta.-Ocimene                     | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Benzene, 1,2,3-trimethoxy-5-(2-pro | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                              | % Solids: 77.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                           | % Solids: 77.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.5               |                 | ug/kg | 7.5        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.92              | J               | ug/kg | 0.92       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                                  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Benzoic acid, 2-[(trimethylsilyl)oxy-4-Carene | TIC          | 7.0               | JN              | ug/kg | 7.0        | JN       | 1.0             | YES        | NV               |
| (+)-4-Carene                                  | TIC          | 6.2               | JN              | ug/kg | 6.2        | JN       | 1.0             | YES        | NV               |
| 4-Ethylbenzamide                              | TIC          | 3.1               | JN              | ug/kg | 3.1        | JN       | 1.0             | YES        | NV               |
| Acetic acid, 1,7,7-trimethyl-bicyc            | TIC          | 14                | JN              | ug/kg | 14         | JN       | 1.0             | YES        | NV               |
| Ethanol                                       | TIC          | 11                | JN              | ug/kg | 11         | JN       | 1.0             | YES        | NV               |
| .alpha.-Pinene                                | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| .beta.-Myrcene                                | TIC          | 25                | JN              | ug/kg | 25         | JN       | 1.0             | YES        | NV               |
| Benzene, 1,3-bis(1,1-dimethylethyl            | TIC          | 4.3               | JN              | ug/kg | 4.3        | JN       | 1.0             | YES        | NV               |
| D-Limonene                                    | TIC          | 87                | JN              | ug/kg | 87         | JN       | 1.0             | YES        | NV               |
| Fenchyl acetate                               | TIC          | 3.9               | JN              | ug/kg | 3.9        | JN       | 1.0             | YES        | NV               |
| Cyclohexene, 1-methyl-4-(1-methyle            | TIC          | 3.6               | JN              | ug/kg | 3.6        | JN       | 1.0             | YES        | NV               |
| Tricyclo[2.2.1.0(2,6)]heptane, 1,7            | TIC          | 53                | JN              | ug/kg | 53         | JN       | 1.0             | YES        | NV               |
| .beta.-Pinene                                 | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| (+)-3-Carene                                  | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Limonene                                      | TIC          | 4.1               | JN              | ug/kg | 4.1        | JN       | 1.0             | YES        | NV               |
| 1,3-Cyclohexadiene, 1-methyl-4-(1-            | TIC          | 16                | JN              | ug/kg | 16         | JN       | 1.0             | YES        | NV               |
| Camphor                                       | TIC          | 22                | JN              | ug/kg | 22         | JN       | 1.0             | YES        | NV               |
| Bicyclo[2.2.1]heptan-2-one, 1,3,3-            | TIC          | 12                | JN              | ug/kg | 12         | JN       | 1.0             | YES        | NV               |
| .gamma.-Terpinene                             | TIC          | 11                | JN              | ug/kg | 11         | JN       | 1.0             | YES        | NV               |
| Eucalyptol                                    | TIC          | 13                | JN              | ug/kg | 13         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-134

pH:

Sample Date: 11/11/2020

Sample Time: 12:50:00

% Moisture:

% Solids: 71.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                    | % Solids: 71.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.90              | J               | ug/kg | 0.90       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.31              | J               | ug/kg | 0.31       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                       | % Solids: 71.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 160               | B               | ug/kg | 160        | B        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                              | % Solids: 71.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                           | % Solids: 71.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.6               |                 | ug/kg | 6.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1H-Cyclopenta[1,3]cyclopropa[1,2]b | TIC          | 55                | JN              | ug/kg | 55         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B32        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:              | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                  | % Solids: 74.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B32        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:                | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                    | % Solids: 74.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.80              | J               | ug/kg | 0.80       | J        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 30                | J-              | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.6               | J               | ug/kg | 1.6        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.37              | J               | ug/kg | 0.37       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.99              | J               | ug/kg | 0.99       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.40              | J               | ug/kg | 0.40       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.54              | J               | ug/kg | 0.54       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B32        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                       | % Solids: 74.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 730               |                 | ug/kg | 730        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 460               | B               | ug/kg | 460        | B        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B32        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                              | % Solids: 74.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.99              | J               | ug/kg | 0.99       | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 75                |                 | ug/kg | 75         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 71                |                 | ug/kg | 71         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 72                |                 | ug/kg | 72         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.5               |                 | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AW4

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B35        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:              | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                  | % Solids: 72.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B35        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:                | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                    | % Solids: 72.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 5.1               | J               | ug/kg | 5.1        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 5.1               | R               | ug/kg | 5.1        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 66                | J               | ug/kg | 66         | DP       | 2.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 50                | J               | ug/kg | 50         | DP       | 2.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B35        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                       | % Solids: 72.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 820               |                 | ug/kg | 820        |          | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 910               |                 | ug/kg | 910        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 560               |                 | ug/kg | 560        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 570               |                 | ug/kg | 570        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                            | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                   | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one            | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| Perylene                              | TIC          | 560               | JN              | ug/kg | 560        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          | 110               | B               | ug/kg | 110        | B        | 1.0             | YES        | NV               |
| Anthracene, 2-methyl-                 | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 5,12-Naphthacenedione                 | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Trichloroacetic acid, hexadecyl<br>es | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 6H-Cyclobuta[jk]phenanthrene          | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene                  | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B35        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                              | % Solids: 72.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 9.2               |                 | ug/kg | 9.2        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 910               | J               | ug/kg | 910        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 960               | J               | ug/kg | 960        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 890               | J               | ug/kg | 890        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0B40

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-109

pH:

Sample Date: 11/10/2020

Sample Time: 13:00:00

% Moisture:

% Solids: 74.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B40        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-109 | pH:                | Sample Date: 11/10/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                    | % Solids: 74.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | J               | ug/kg | 2.3        | P        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.3               | J               | ug/kg | 2.3        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.56              | J               | ug/kg | 0.56       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.78              | J               | ug/kg | 0.78       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.87              | J               | ug/kg | 0.87       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B40        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-109 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                       | % Solids: 74.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 830               |                 | ug/kg | 830        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 710               |                 | ug/kg | 710        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 530               |                 | ug/kg | 530        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 9,10-Anthracenedione           | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          | 110               | B               | ug/kg | 110        | B        | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-        | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B40        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-109 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                              | % Solids: 74.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 360               | J               | ug/kg | 360        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 910               | J               | ug/kg | 910        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 480               | J               | ug/kg | 480        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 280               |                 | ug/kg | 280        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 50                |                 | ug/kg | 50         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0B44

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-113

pH:

Sample Date: 11/10/2020

Sample Time: 13:55:00

% Moisture:

% Solids: 76.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B44        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-113 | pH:                | Sample Date: 11/10/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                    | % Solids: 76.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.56              | J               | ug/kg | 0.56       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.39              | J               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.31              | J               | ug/kg | 0.31       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B44        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-113 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                       | % Solids: 76.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| n-Hexadecanoic acid        | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 290               | B               | ug/kg | 290        | B        | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Tributyl acetylcitrate     | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B44        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-113 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                              | % Solids: 76.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 100               |                 | ug/kg | 100        | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 79                |                 | ug/kg | 79         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 67                |                 | ug/kg | 67         | D        | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 69                |                 | ug/kg | 69         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0B45

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-114

pH:

Sample Date: 11/10/2020

Sample Time: 14:20:00

% Moisture:

% Solids: 76.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B45        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-114 | pH:                | Sample Date: 11/10/2020 | Sample Time: 14:20:00 |
| % Moisture:                 |                    | % Solids: 76.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               |                 | ug/kg | 2.2        |          | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.55              | J               | ug/kg | 0.55       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 20                | J               | ug/kg | 20         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 9.1               | R               | ug/kg | 9.1        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B45        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-114 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 14:20:00 |
| % Moisture:                 |                       | % Solids: 76.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                      | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                      | Target       | 470               |                 | ug/kg | 470        |          | 1.0             | YES        | S4VEM            |
| Pyrene                            | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Chrysene                          | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate        | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene              | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene              | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                    | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene            | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene              | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butane, 2-methoxy-2-methyl-       | TIC          | 2200              | JN              | ug/kg | 2200       | JN       | 1.0             | YES        | NV               |
| Total Alkanes                     | TIC          | 990               | B               | ug/kg | 990        | B        | 1.0             | YES        | NV               |
| 2-Propenoic acid, 3-[4-(3-methyl- | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| Pentadecanoic acid                | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B45        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-114 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 14:20:00 |
| % Moisture:                 |                              | % Solids: 76.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.9               |                 | ug/kg | 4.9        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 420               | J               | ug/kg | 420        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 400               | J               | ug/kg | 400        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0BE9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-104-01

pH:

Sample Date: 11/10/2020

Sample Time: 12:05:00

% Moisture:

% Solids: 70.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE9           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104-01 | pH:                | Sample Date: 11/10/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                    | % Solids: 70.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 8.0               | J               | ug/kg | 8.0        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.8               | R               | ug/kg | 4.8        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 110               | J               | ug/kg | 110        | DP       | 5.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 83                | J               | ug/kg | 83         | DP       | 5.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE9           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104-01 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                       | % Solids: 70.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 95                | U               | ug/kg | 95         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene                | Target       | 670               |                 | ug/kg | 670        |          | 1.0             | YES        | S4VEM            |
| Pyrene                      | Target       | 710               |                 | ug/kg | 710        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene          | Target       | 440               |                 | ug/kg | 440        |          | 1.0             | YES        | S4VEM            |
| Chrysene                    | Target       | 550               |                 | ug/kg | 550        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate  | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate        | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene        | Target       | 730               |                 | ug/kg | 730        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene        | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene              | Target       | 520               |                 | ug/kg | 520        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene      | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene        | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                  | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid         | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene              | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| Total Alkanes               | TIC          | 250               | B               | ug/kg | 250        | B        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene-11-one | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Butane, 2-methoxy-2-methyl- | TIC          | 2300              | JN              | ug/kg | 2300       | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene        | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE9           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104-01 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                              | % Solids: 70.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.8               |                 | ug/kg | 4.8        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.6               | J               | ug/kg | 4.6        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.2               |                 | ug/kg | 6.2        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 730               | J               | ug/kg | 730        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 660               | J               | ug/kg | 660        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 500               | J               | ug/kg | 500        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 550               | J               | ug/kg | 550        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 750               | J               | ug/kg | 750        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 520               | J               | ug/kg | 520        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 92                |                 | ug/kg | 92         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 330               |                 | ug/kg | 330        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

Sample Number: C0BF0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-104-01

pH:

Sample Date: 11/10/2020

Sample Time: 12:00:00

% Moisture:

% Solids: 60.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BF0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                    | % Solids: 60.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 32                | J               | ug/kg | 32         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 9.1               | J               | ug/kg | 9.1        | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 9.5               | R               | ug/kg | 9.5        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 5.9               | J               | ug/kg | 5.9        | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 280               | J               | ug/kg | 280        | DP       | 10.0            | YES        | S4VEM            |
| trans-Chlordane     | Target       | 200               | J               | ug/kg | 200        | DP       | 10.0            | YES        | S4VEM            |
| Toxaphene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BF0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                       | % Solids: 60.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Nonadecyl trifluoroacetate | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BF0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                              | % Solids: 60.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF0           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                           | % Solids: 60.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 6.2               | J               | ug/kg | 6.2        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 13                |                 | ug/kg | 13         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 9.3               | UJ              | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name            | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Thiazole, 2,4-dimethyl- | TIC          | 7.8               | JN              | ug/kg | 7.8        | JN       | 1.0             | YES        | NV               |
| unknown-01              | TIC          | 5.2               | J               | ug/kg | 5.2        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF1       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-01 | pH: 1.0                   | Sample Date: 11/10/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 4.0               | J               | ug/L  | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK03 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK23 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS03 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.7               |                 | ug/kg | 3.7        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS23 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK52 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 80                | N               | ug/kg | 80         | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK53 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK03 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK05 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK30 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK31 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK62 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK79 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.1               | J               | ug/kg | 4.1        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW4

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 1/25/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AW6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220079





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 6, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COAW6

### Overview

This data package consisted of eighteen (18) soil samples and one (1) rinsate blank analyzed for semivolatiles, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), pesticides, and Aroclors. In addition, twelve (12) of the soil samples, one (1) rinsate blank, and one (1) trip blank were analyzed for volatiles.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 23, 2020.

### Summary

Dual column precision outliers were identified that resulted in rejection of sample results. Less significant data quality outliers requiring estimation of sample results were identified including, but not limited to, Deuterated Monitoring Compound (DMC)/surrogate recovery, calibration precision, and calibration exceedances as detailed below.

**Major Problem**

The following analytes had results greater than Contract Required Quantitation Limits (>CRQLs) with Percent Difference (%D) >200% between the dual column analyses. The large %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed below have been rejected and qualified "R".

| Fraction  | Affected Samples | Affected Analytes              |
|-----------|------------------|--------------------------------|
| Pesticide | COAY1            | cis-Chlordane, trans-Chlordane |
|           | COB50            | trans-Chlordane                |

**Minor Problem**

Percent recoveries for the following DMC/surrogate were outside the lower control limit for the samples listed below. Detected results >CRQL for pesticides and Aroclors in these samples are estimated and have been qualified "J". Quantitation limits are estimated and have been qualified "UJ".

| Fraction     | DMC/Surrogate      | Affected Samples                                |
|--------------|--------------------|---|
| Semivolatile | 1,4-Dioxane-d8     | COAX3   |
| Pesticide    | Decachlorobiphenyl | COAX3, COAZ2, COB21, COB28, COB46, COB50        |
| Aroclor      | Decachlorobiphenyl | COAX8, COAY4, COAY9, COAZ2, COB10, COB52, COB57 |

The following analyte failed Percent Difference (%D) criteria in continuing calibration verification analysis. The detected result for analyte in the sample is estimated and has been qualified "J".

| Fraction     | Standard ID | Affected Analytes    | Associated Samples |
|--------------|-------------|----------------------|--------------------|
| Semivolatile | SSTD02089   | Butylbenzylphthalate | COAY4              |

The following analytes exceeded calibration range in the diluted analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COAX3  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COAZ2  | 5x | Fluoranthene, Pyrene   |
|          | COB28  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COB41  | 5x | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |

**Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

For the volatile fraction, method blanks VBLK13, VBLK14, and VBLK16 and storage blank VHBLK01 reported detected concentrations of methylene chloride less than the CRQL. Detected concentrations of methylene chloride in the associated samples are not qualified because the results are >CRQL and >2x blank result.

Method blanks were free from contamination for other fractions.

Trip blank COBH9 was free from contamination for the volatile analytes. Rinsate blank COBH8 was free from contamination for all fractions.

Pesticide and Aroclor results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits. No data were qualified based on MS/MSD accuracy and precision.

The semivolatile analytes butylbenzylphthalate and bis(2-ethylhexyl)phthalate failed Percent Relative Standard Deviation (%RSD) criteria in the initial calibration analyzed on 12/10/2020. The detected result for butylbenzylphthalate in the associated sample COAY4 (analyzed at a dilution) is estimated and has been qualified "J". The result for bis(2-ethylhexyl)phthalate in sample COAY4 is not qualified because it was reported from the undiluted analysis.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of the samples listed. The samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilution. There is no indication that these exceedance issues impacted subsequent sample analyses.



| Fraction     | Sample | DF   | Analyte  |
|--------------|--------|--|--|
| Semivolatile | COAY4  | 2x   | Butylbenzylphthalate   |
| PAH          | COAW6  | 2x   | Pyrene   |
|              | COAX3  | 5x   | Anthracene, Dibenzo(a,h)anthracene   |
|              | COAY4  | 2x   | Fluoranthene, Pyrene   |
|              | COAZ2  | 5x   | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                       |
|              | COB28  | 5x   | Anthracene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB30  | 2x   | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|              | COB34  | 5x   | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|              | COB41  | 5x   | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB46  | 10x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|              | COB50  | 5x   | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
| COBJ1        | 5x     | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene |  |
| Pesticide    | COAY1  | 5x   | Dieldrin   |

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COAX3. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

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**Glossary of Organic Data Qualifier Codes**

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**Validation Qualifiers**

In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

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**Additional Qualifiers**

Additional qualifiers may be combined with other qualifiers.

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- N The analyte has been "tentatively identified" or "presumptively" as present.
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
- X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: ABLK83

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: ABLK97

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AW6

**Lab Name:** Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS83 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AW6

**Lab Name:** Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS97 | Method: Aroclors | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6            | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 0   |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 1.0               |                 | ug/L  | 1.0        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 0.99              | J               | ug/L  | 0.99       | J        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0AW6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-103

pH:

Sample Date: 12/02/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 74.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-103 | pH:                | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                    | % Solids: 74.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.26              | J               | ug/kg | 0.26       | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-103 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                       | % Solids: 74.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-103 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                              | % Solids: 74.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 9.7               |                 | ug/kg | 9.7        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 67                |                 | ug/kg | 67         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 76                |                 | ug/kg | 76         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-103 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                           | % Solids: 74.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.9               | J               | ug/kg | 5.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0AX3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-110

pH:

Sample Date: 12/02/2020

Sample Time: 09:00:00

% Moisture:

% Solids: 73.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | J               | ug/kg | 43         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                    | % Solids: 73.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.62              | J               | ug/kg | 0.62       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.62              | J               | ug/kg | 0.62       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                       | % Solids: 73.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | UJ              | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 830               |                 | ug/kg | 830        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 82                | J               | ug/kg | 82         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 710               |                 | ug/kg | 710        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 810               |                 | ug/kg | 810        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 950               |                 | ug/kg | 950        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 680               |                 | ug/kg | 680        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 410               |                 | ug/kg | 410        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Perylene                           | TIC          | 340               | JN              | ug/kg | 340        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrene        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro- | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one         | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene    | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[1]phenanthrene,1a,9b | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                              | % Solids: 73.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.7               |                 | ug/kg | 8.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 2400              | J               | ug/kg | 2400       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1900              | J               | ug/kg | 1900       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 940               | J               | ug/kg | 940        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 430               | J               | ug/kg | 430        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                           | % Solids: 73.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0AX8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-115

pH:

Sample Date: 12/02/2020

Sample Time: 09:30:00

% Moisture:

% Solids: 75.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                    | % Solids: 75.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                       | % Solids: 75.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                              | % Solids: 75.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.97              | J               | ug/kg | 0.97       | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 75.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | J               | ug/kg | 12         | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0AY1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-119

pH:

Sample Date: 12/02/2020

Sample Time: 10:00:00

% Moisture:

% Solids: 72.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-119 | pH:                | Sample Date: 12/02/2020 | Sample Time: 10:00:00 |
| % Moisture:                 |                    | % Solids: 72.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.25              | J               | ug/kg | 0.25       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.6               | R               | ug/kg | 2.6        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 5.4               | R               | ug/kg | 5.4        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-119 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 10:00:00 |
| % Moisture:                 |                       | % Solids: 72.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-119 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 10:00:00 |
| % Moisture:                 |                              | % Solids: 72.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 5.6               |                 | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-119 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 10:00:00 |
| % Moisture:                 |                           | % Solids: 72.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 14                |                 | ug/kg | 14         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0AY4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-121

pH:

Sample Date: 12/02/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 71.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-121 | pH:                | Sample Date: 12/02/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                    | % Solids: 71.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-121 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                       | % Solids: 71.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 6400              | J               | ug/kg | 6400       | D        | 2.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 220               | N               | ug/kg | 220        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-121 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                              | % Solids: 71.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 87                |                 | ug/kg | 87         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 89                |                 | ug/kg | 89         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 67                |                 | ug/kg | 67         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-121 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                           | % Solids: 71.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 6.1               | J               | ug/kg | 6.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 15                |                 | ug/kg | 15         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0AY9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-126

pH:

Sample Date: 12/02/2020

Sample Time: 11:00:00

% Moisture:

% Solids: 76.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                    | % Solids: 76.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.42              | J               | ug/kg | 0.42       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.34              | J               | ug/kg | 0.34       | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                       | % Solids: 76.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acetaminophen                      | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Trichloroacetic acid, pentadecyl e | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                              | % Solids: 76.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.9               |                 | ug/kg | 8.9        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                           | % Solids: 76.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 12                |                 | ug/kg | 12         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| .alpha.-Pinene                        | TIC          | 3.5               | JN              | ug/kg | 3.5        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| (1R)-2,6,6-Trimethylbicyclo[3.1.1] | TIC          | 5.6               | JN              | ug/kg | 5.6        | JN       | 1.0             | YES        | NV               |
| 3-Carene                           | TIC          | 4.2               | JN              | ug/kg | 4.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AZ2        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:              | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                  | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:                | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                    | % Solids: 70.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.33              | J               | ug/kg | 0.33       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                       | % Solids: 70.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | J               | ug/kg | 400        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                              | % Solids: 70.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 9.0               |                 | ug/kg | 9.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 97                |                 | ug/kg | 97         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                           | % Solids: 70.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 10                |                 | ug/kg | 10         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B10

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-147

pH:

Sample Date: 12/02/2020

Sample Time: 12:00:00

% Moisture:

% Solids: 72.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B10        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                    | % Solids: 72.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B10        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                       | % Solids: 72.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B10        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                              | % Solids: 72.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.94              | J               | ug/kg | 0.94       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 8.7               |                 | ug/kg | 8.7        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B10        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                           | % Solids: 72.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.4               |                 | ug/kg | 8.4        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B21

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-158

pH:

Sample Date: 12/02/2020

Sample Time: 13:30:00

% Moisture:

% Solids: 81.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B21        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                    | % Solids: 81.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B21        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                       | % Solids: 81.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B21        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                              | % Solids: 81.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.86              | J               | ug/kg | 0.86       | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 8.9               |                 | ug/kg | 8.9        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.6               |                 | ug/kg | 8.6        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B21        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                           | % Solids: 81.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.3               |                 | ug/kg | 8.3        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B28

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-165

pH:

Sample Date: 12/02/2020

Sample Time: 14:10:00

% Moisture:

% Solids: 81.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B28        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                    | % Solids: 81.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.91              | J               | ug/kg | 0.91       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B28        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                       | % Solids: 81.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B28        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                              | % Solids: 81.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 370               | J               | ug/kg | 370        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 93                |                 | ug/kg | 93         | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 620               | J               | ug/kg | 620        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 570               | J               | ug/kg | 570        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 280               |                 | ug/kg | 280        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 380               | J               | ug/kg | 380        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B28        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                           | % Solids: 81.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 13                |                 | ug/kg | 13         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B30

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-167

pH:

Sample Date: 12/02/2020

Sample Time: 14:50:00

% Moisture:

% Solids: 81.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B30        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                    | % Solids: 81.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.80              | J               | ug/kg | 0.80       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.50              | J               | ug/kg | 0.50       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B30        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                       | % Solids: 81.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 82                | J               | ug/kg | 82         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B30        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                              | % Solids: 81.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 110               |                 | ug/kg | 110        | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 100               |                 | ug/kg | 100        | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 85                |                 | ug/kg | 85         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B30        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                           | % Solids: 81.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 15                |                 | ug/kg | 15         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B34

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-103

pH:

Sample Date: 12/02/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 74.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B34        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-103 | pH:                | Sample Date: 12/02/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                    | % Solids: 74.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.38              | J               | ug/kg | 0.38       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B34        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-103 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                       | % Solids: 74.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| (1R)-2,6,6-Trimethylbicyclo[3.1.1] | TIC          | 350               | JN              | ug/kg | 350        | JN       | 1.0             | YES        | NV               |
| Cinnamyl cinnamate                 | TIC          | 740               | JN              | ug/kg | 740        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B34        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-103 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                              | % Solids: 74.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 95                |                 | ug/kg | 95         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 90                |                 | ug/kg | 90         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B41

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-110

pH:

Sample Date: 12/02/2020

Sample Time: 09:05:00

% Moisture:

% Solids: 75.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B41        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-110 | pH:                | Sample Date: 12/02/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                    | % Solids: 75.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.36              | J               | ug/kg | 0.36       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B41        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-110 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                       | % Solids: 75.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 600               |                 | ug/kg | 600        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B41        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-110 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                              | % Solids: 75.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 320               |                 | ug/kg | 320        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 63                |                 | ug/kg | 63         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 700               | J               | ug/kg | 700        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 630               | J               | ug/kg | 630        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 320               |                 | ug/kg | 320        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 350               |                 | ug/kg | 350        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B46

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-115

pH:

Sample Date: 12/02/2020

Sample Time: 09:35:00

% Moisture:

% Solids: 71.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B46        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-115 | pH:                | Sample Date: 12/02/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                    | % Solids: 71.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.41              | J               | ug/kg | 0.41       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B46        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-115 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                       | % Solids: 71.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 320               | J               | ug/kg | 320        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 82                | J               | ug/kg | 82         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B46        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-115 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                              | % Solids: 71.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 200               |                 | ug/kg | 200        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 340               |                 | ug/kg | 340        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 330               |                 | ug/kg | 330        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 150               |                 | ug/kg | 150        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 150               |                 | ug/kg | 150        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 210               |                 | ug/kg | 210        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 78                |                 | ug/kg | 78         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 140               |                 | ug/kg | 140        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 77                |                 | ug/kg | 77         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 75                |                 | ug/kg | 75         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B50

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-119

pH:

Sample Date: 12/02/2020

Sample Time: 10:05:00

% Moisture:

% Solids: 72.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B50        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-119 | pH:                | Sample Date: 12/02/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                    | % Solids: 72.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.53              | J               | ug/kg | 0.53       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 37                | J               | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.34              | J               | ug/kg | 0.34       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.70              | J               | ug/kg | 0.70       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 17                | J               | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 11                | J               | ug/kg | 11         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | R               | ug/kg | 2.4        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B50        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-119 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                       | % Solids: 72.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B50        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-119 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                              | % Solids: 72.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 80                |                 | ug/kg | 80         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B52

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-121

pH:

Sample Date: 12/02/2020

Sample Time: 10:35:00

% Moisture:

% Solids: 73.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B52        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-121 | pH:                | Sample Date: 12/02/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                    | % Solids: 73.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.34              | J               | ug/kg | 0.34       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.60              | J               | ug/kg | 0.60       | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B52        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-121 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                       | % Solids: 73.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B52        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-121 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                              | % Solids: 73.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 8.7               |                 | ug/kg | 8.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.3               | J               | ug/kg | 4.3        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B57

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-126

pH:

Sample Date: 12/02/2020

Sample Time: 11:05:00

% Moisture:

% Solids: 71.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B57        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-126 | pH:                | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                    | % Solids: 71.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.39              | J               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.23              | J               | ug/kg | 0.23       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B57        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-126 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                       | % Solids: 71.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B57        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-126 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                              | % Solids: 71.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 5.4               |                 | ug/kg | 5.4        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 6.1               |                 | ug/kg | 6.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name: NORWOOD LANDFILL Project**

**GroupID: 49167/EPW14030/C0AW6**

**Lab Name: Chemtech Consulting Group**

|                        |                  |                         |                       |
|------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B57MS | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:              | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:            |                  | % Solids: 71.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               | J-              | ug/kg | 190        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 190               | J-              | ug/kg | 190        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B57MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:            |                    | % Solids: 71.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 19                | J-              | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 19                | J-              | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 19                | J-              | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 38                | J-              | ug/kg | 38         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 1.4               | J-              | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 40                | J-              | ug/kg | 40         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.24              | J-              | ug/kg | 0.24       | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.25              | J-              | ug/kg | 0.25       | JP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0B57MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 12/02/2020

Sample Time: 11:05:00

% Moisture:

% Solids: 71.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               | J-              | ug/kg | 190        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 180               | J-              | ug/kg | 180        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 46                | UJ              | ug/kg | 46         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B57MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:             |                    | % Solids: 71.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 19                | J-              | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 19                | J-              | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 19                | J-              | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 38                | J-              | ug/kg | 38         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 1.4               | J-              | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 1.9               | J-              | ug/kg | 1.9        | J        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 40                | J-              | ug/kg | 40         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.25              | J-              | ug/kg | 0.25       | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.25              | J-              | ug/kg | 0.25       | JP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0BH8

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NLR-RB-SS-01

pH: 6

Sample Date: 12/02/2020

Sample Time: 15:30:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                               |                    |                         |                       |
|-------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH8          | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SS-01 | pH: 6              | Sample Date: 12/02/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                               |                       |                         |                       |
|-------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH8          | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SS-01 | pH: 6                 | Sample Date: 12/02/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate        | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                  | TIC          | 3.6               | J               | ug/L  | 3.6        | J        | 1.0             | YES        | NV               |
| Total Alkanes               | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |
| Tetradecyl trifluoroacetate | TIC          | 5.2               | JN              | ug/L  | 5.2        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                               |                              |                         |                       |
|-------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH8          | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SS-01 | pH: 6                        | Sample Date: 12/02/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                               |                           |                         |                       |
|-------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH8          | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SS-01 | pH: 1.0                   | Sample Date: 12/02/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH9       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-08 | pH: 1.0                   | Sample Date: 12/02/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

Sample Number: C0BJ1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-170

pH:

Sample Date: 12/02/2020

Sample Time: 12:45:00

% Moisture:

% Solids: 71.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BJ1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                    | % Solids: 71.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BJ1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                       | % Solids: 71.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BJ1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                              | % Solids: 71.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 63                |                 | ug/kg | 63         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 87                |                 | ug/kg | 87         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BJ1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                           | % Solids: 71.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 10                |                 | ug/kg | 10         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK63 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK84 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK98 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS63 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS84 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS98 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.039             | J               | ug/L  | 0.039      | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 0.050             |                 | ug/L  | 0.050      |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 0.094             | J               | ug/L  | 0.094      | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 0.095             | J               | ug/L  | 0.095      | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 0.086             | J               | ug/L  | 0.086      | J        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 0.052             | J               | ug/L  | 0.052      | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 0.049             | J               | ug/L  | 0.049      | J        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK92 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK93 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK95 | Method: Semivolatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                 | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 0   |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK96 | Method: Semivolatiles by SIM | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                        | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 0   |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK13 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.3               | J               | ug/kg | 4.3        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK14 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| unknown-01   | TIC          | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK16 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| unknown-01   | TIC          | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK91 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK95 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | UJ              | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.5               | J               | ug/kg | 3.5        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | UJ              | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AW6

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric" followed by a stylized set of initials.

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AY0 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220034





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 4, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 C0AY0

### **Overview**

This data package consisted of two (2) trip blanks and fourteen (14) soil samples including three field duplicate samples analyzed for volatile analytes and two (2) rinsate blanks and one (1) soil sample analyzed for volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 4, 2020. In addition, the reconciliation data dated December 16, 2020 was noted.

### **Summary**

No significant data quality outliers were identified that would require rejection of sample results. Blank contamination in the volatile fraction and calibration standards in semivolatile and PAH fractions required qualification.



**Minor Problem**

The following analytes failed Percent Difference (%D) criteria in calibration standards listed below. Positive results and quantitation limits for these analytes in the associated sample are estimated and have been qualified "J" and "UJ", respectively.

| <b>Fraction</b> | <b>Standard ID</b> | <b>Affected Analytes</b>                                | <b>Associated Sample</b> |
|-----------------|--------------------|---|--------------------------|
| Semivolatile    | SSTD02066          | bis(2-Chloroethyl)ether,<br>2,2-oxybis(1-Chloropropane) | COAY0                    |
| PAH             | SSTD0.418          | Benzo(a)anthracene                                      | COAY0                    |

**Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQL) are estimated and have been qualified "J".

Laboratory blanks were free of contamination in all fractions with the exception of the volatile fraction. Target analyte 2-hexanone was reported <CRQL in VBLK86 and VHBLK02 which were associated with water samples. Target analytes were reported in several blanks which were associated with soil samples: carbon disulfide and methylene chloride <CRQL in VBLK08, methylene chloride <CRQL in volatile blank VBLK07 and VBLK11, acetone <CRQL in VBLK11 and VHBLK01 and methylene chloride >CRQL in VHBLK01. Carbon disulfide was not detected in field samples. Positive results for 2-hexanone, acetone and methylene chloride <CRQL in affected samples have been raised to the CRQL and qualified "U". Positive results for acetone >CRQL but <2X the holding blank value have been reported and qualified "U".

Trip blanks, samples COBG4 and COBG8, were free of contamination. The rinsate blanks, samples COBH0 and COBG9, reported concentrations of acetone and/or dimethylphthalate <CRQL. Positive results for these analytes <CRQL in associated samples have been reported at CRQL and qualified "U".

Samples COBH2, COBH3 and COBH5 are listed as field duplicate samples on the chain of custody records. The duplicate pairs to these samples were not identified. Comparison of results could not be made.

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide and Aroclor samples COAY0 reported acceptable results.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: ABLK24

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ABLK86 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: ALCS24

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 1.1               |                 | ug/L  | 1.1        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 0.99              | J               | ug/L  | 0.99       | J        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: ALCS86

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 30                | J               | ug/kg | 30         | J        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 29                | J               | ug/kg | 29         | J        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: C0AY0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-117

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 70.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                    | % Solids: 70.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                       | % Solids: 70.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 95                | U               | ug/kg | 95         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | UJ              | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | UJ              | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               | U               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                              | % Solids: 70.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 17                | J               | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 6.5               |                 | ug/kg | 6.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                           | % Solids: 70.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.5               | U               | ug/kg | 5.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: C0AY0MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 70.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 170               |                 | ug/kg | 170        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 160               |                 | ug/kg | 160        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY0MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                    | % Solids: 70.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: C0AY0MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 70.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 150               |                 | ug/kg | 150        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 140               |                 | ug/kg | 140        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY0MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:             |                    | % Solids: 70.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-133 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                           | % Solids: 79.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 9.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | U               | ug/kg | 6.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                           | % Solids: 80.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 6.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.0               | U               | ug/kg | 7.0        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.1               | U               | ug/kg | 5.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-139 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                           | % Solids: 80.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 8.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.1               | U               | ug/kg | 9.1        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                           | % Solids: 81.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 8.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.4               | U               | ug/kg | 8.4        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 81.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.4               | U               | ug/kg | 9.4        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-110 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                           | % Solids: 84.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.8               | U               | ug/kg | 5.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                           | % Solids: 89.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 5.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.7               | U               | ug/kg | 8.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 7H-Dibenzo[b,g]carbazole, 7-methyl | TIC          | 4.3               | JN              | ug/kg | 4.3        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                           | % Solids: 80.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 5.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.3               | U               | ug/kg | 8.3        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                           | % Solids: 90.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 9.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.9               | U               | ug/kg | 7.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-126 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 15:40:00 |
| % Moisture:                 |                           | % Solids: 71.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 9.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 12                | U               | ug/kg | 12         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG4       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-05 | pH: 1.0                   | Sample Date: 11/17/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 7.8        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG8       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-06 | pH: 1.0                   | Sample Date: 11/18/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 7.4        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: C0BG9

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NLR-RB-SB-02

pH: 5

Sample Date: 11/18/2020

Sample Time: 15:30:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                    |                         |                       |
|-------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG9          | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 5              | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                       |                         |                       |
|-------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG9          | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 5                 | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   | % Solids: 0           |                         |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.1               | J               | ug/L  | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

| Analyte Name                           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trifluoroacetic acid,n-tridecyl<br>es  | TIC          | 3.3               | JN              | ug/L  | 3.3        | JN       | 1.0             | YES        | NV               |
| 7,9-Di-tert-butyl-1-<br>oxaspiro(4,5)d | TIC          | 2.8               | JN              | ug/L  | 2.8        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                              |                         |                       |
|-------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG9          | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 5                        | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                           |                         |                       |
|-------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG9          | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 1.0                   | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 8.4        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

Sample Number: C0BH0

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NLR-RB-DB-01

pH: 5

Sample Date: 11/18/2020

Sample Time: 15:35:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                    |                         |                       |
|-------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH0          | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-DB-01 | pH: 5              | Sample Date: 11/18/2020 | Sample Time: 15:35:00 |
| % Moisture:                   |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                       |                         |                       |
|-------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH0          | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-DB-01 | pH: 5                 | Sample Date: 11/18/2020 | Sample Time: 15:35:00 |
| % Moisture:                   |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 2.3               | J               | ug/L  | 2.3        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 4.0               | N               | ug/L  | 4.0        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                              |                         |                       |
|-------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH0          | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-DB-01 | pH: 5                        | Sample Date: 11/18/2020 | Sample Time: 15:35:00 |
| % Moisture:                   |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                               |                           |                         |                       |
|-------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH0          | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-DB-01 | pH: 1.0                   | Sample Date: 11/18/2020 | Sample Time: 15:35:00 |
| % Moisture:                   |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 2.8               | J               | ug/L  | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 7.7        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                           | % Solids: 77.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 12                | U               | ug/kg | 12         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                           | % Solids: 81.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                | U               | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH3           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                           | % Solids: 81.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 7.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                | U               | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                           | % Solids: 81.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 12                | U               | ug/kg | 12         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK25 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK87 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS25 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 0.047             | J               | ug/L  | 0.047      | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 0.058             |                 | ug/L  | 0.058      |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 0.075             | J               | ug/L  | 0.075      | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 0.056             |                 | ug/L  | 0.056      |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS87 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK26 | Method: Semivolatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                 | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 0   |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK27 | Method: Semivolatiles by SIM | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                        | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 0   |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK71 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | UJ              | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | UJ              | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK72 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK07 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.9               | J               | ug/kg | 4.9        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK08 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.66              | J               | ug/kg | 0.66       | J        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK11 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK86 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.2               | J               | ug/L  | 5.2        | J        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 4.6               | J               | ug/kg | 4.6        | JB       | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 9.7               |                 | ug/kg | 9.7        | B        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 5.7               | J               | ug/L  | 5.7        | JB       | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY0

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AY8 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220033





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 5, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COAY8

### Overview

This data package consisted of twenty (20) soil samples analyzed for volatile target analytes.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 9, 2020.

Trip blank COBG8 (from SDG COAY0) was associated with samples in this SDG and used in the evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Internal standard and calibration issues required estimation of sample results.

### Minor Problems

The area response for internal standard 1,4-dichlorobenzene-d4 was outside the lower control limit (20%) in the initial analysis for sample COBB5. This sample was reanalyzed with the area response greater than 20% but less than 50%. Results were reported from the reanalysis. Associated analytes were not detected in this sample; quantitation limits are estimated and have been qualified "UJ".



Trichloroethene failed criteria [percent Difference (%D)] in a continuing calibration standard. This analyte was not detected in associated samples; quantitation limits are estimated and have been qualified "UJ" in affected samples.

### **Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Trip blank COBG8 was free from contamination.

Storage blank VHBLK01 reported concentrations for acetone less than the CRQL and for methylene chloride greater than the CRQL. Detected concentrations for these analytes less than the CRQL were reported at the CRQL and qualified "U". Detected concentrations for methylene chloride which were less than twice (<2X) the blank concentration have been qualified "U" as reported.

Method blank VBLK07 reported a concentration for methylene chloride less than the CRQL. The detected concentration for associated sample COAZ1 was less than twice (<2X) the blank concentration and qualified "U" as reported.

Method blanks VBLK08, VBLK09 and VBLK10 reported concentrations for acetone, carbon disulfide, methylene chloride, and/or 4-methyl-2-pentanone less than the CRQLs. Carbon disulfide was not detected in associated samples; quantitation limits were not qualified based on this finding. Detected concentrations for the remaining analytes in associated samples less than the CRQLs were reported at the CRQL and qualified "U".

Percent recoveries for Deuterated Monitoring Compounds (DMCs) benzene-d6, 1,2-dichloropropane-d6, and 1,1,2,2-tetrachloroethane-d2, were outside upper control limits for the initial analysis for sample COBB5. This sample was reanalyzed due to internal standard area response. DMCs 1,2-dichloropropane-d6 and 2-hexanone-d5 were outside upper control limits for the reanalysis. Results were reported from the reanalysis. The detected concentration for associated analyte 4-methyl-2-pentanone was less than the CRQL and qualified "J". The remaining associated analytes were not detected and were not qualified based on this finding.

One of the three Encore vials received for sample COBB4 was without soil. There was sufficient sample in the other two vials for analysis. No data were qualified based on this finding.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated by the validator and found to be accurate and consistent. No action was taken by the validator based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COBB5. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### Glossary of Organic Data Qualifier Codes

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Validation Qualifiers In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

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Additional Qualifiers Additional qualifiers may be combined with other qualifiers.

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- N The analyte has been “tentatively identified” or “presumptively” as present.
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
- X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

Sample Number: C0AY8

Method: Volatile Organics

Matrix: Soil

MA Number:

Sample Location: NLR-SS-125

pH:

Sample Date: 11/18/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 74.2

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | U               | ug/kg | 3.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.7               | UJ              | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 79.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 8.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.6               | U               | ug/kg | 8.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 0.65              | J               | ug/kg | 0.65       | J        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 82.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 7.7        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.8               | U               | ug/kg | 8.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-131 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                           | % Solids: 74.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 12         | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               | U               | ug/kg | 3.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | UJ              | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 2.4        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| .beta.-Myrcene                     | TIC          | 21                | JN              | ug/kg | 21         | JN       | 1.0             | YES        | NV               |
| D-Limonene                         | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| (1R)-2,6,6-Trimethylbicyclo[3.1.1] | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| .beta.-Pinene                      | TIC          | 79                | JN              | ug/kg | 79         | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-132 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                           | % Solids: 76.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.5               | U               | ug/kg | 4.5        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-133 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                           | % Solids: 82.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 5.2        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B00        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                           | % Solids: 79.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 5.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B02        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                           | % Solids: 74.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.8               | U               | ug/kg | 4.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B04        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                           | % Solids: 82.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 4.8               | U               | ug/kg | 4.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-103 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                           | % Solids: 84.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 7.3        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.6               | U               | ug/kg | 7.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                           | % Solids: 83.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 2.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | UJ              | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                           | % Solids: 78.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 10                | U               | ug/kg | 5.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 10                | UJ              | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                           | % Solids: 81.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.2               | U               | ug/kg | 8.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | UJ              | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                           | % Solids: 83.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.8               | U               | ug/kg | 7.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.3               | UJ              | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                           | % Solids: 84.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.6               | U               | ug/kg | 5.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 6.3        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.6               | U               | ug/kg | 1.5        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 4.8               | U               | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                           | % Solids: 82.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 6.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.2               | U               | ug/kg | 5.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.2               | UJ              | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 1.7        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.2               | U               | ug/kg | 5.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 77.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 8.9        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.7               | U               | ug/kg | 9.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.83              | J               | ug/kg | 0.83       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | U               | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-130 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 80.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 5.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | UJ              | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                           | % Solids: 80.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 7.3        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.8               | U               | ug/kg | 9.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                           | % Solids: 78.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 5.5        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.1               | U               | ug/kg | 7.1        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK07 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 4.9               | J               | ug/kg | 4.9        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK08 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.66              | J               | ug/kg | 0.66       | J        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK09 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK10 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.4               | J               | ug/kg | 5.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK11 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.5               | J               | ug/kg | 4.5        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.1               |                 | ug/kg | 9.1        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AY8

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric" followed by a stylized set of initials.

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AZ1 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220037







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 05, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COAZ1

### **Overview**

This data package consisted of nineteen (19) soil samples analyzed for Semi-volatiles, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), Pesticides, and Aroclors.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 16, 2020.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Surrogate recovery, dual column precision and concentration exceeding calibration range required qualification of results.

### **Minor Problem**

Percent recoveries for pesticide surrogate decachlorobiphenyl were outside the lower control limit for samples COAY8, COAZ4, COB56, COB61, COB62, COB70, and COBH4. Detected results >CRQL for pesticides in these samples are estimated and have been qualified "J-".

The following analytes exceeded calibration range in the diluted analysis of sample COBB5; the sample was not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COBB5  | 5x | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |

### **Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Aroclor and pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result was reported.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits except for Matrix Spike (COB04MS) recovery (137%) of Aroclor-1260. No data were qualified based on MS/MSD accuracy and precision.

Semivolatiles percent recoveries for DMC/surrogates (2-Chlorophenol-d4, 2-Nitrophenol-d4, Acenathylene-d8) were outside the upper control limit for sample COBC3. The associated analytes were not detected in these samples. Quantitation limits are not qualified.

Results reported for field duplicate pair COB04/COBH2 were comparable for SVOC & Pesticides. No data were qualified based on field duplicate precision.

Results reported for field duplicate pair COB04/COBH2 RPD for Aroclor-1254 exceeded the 25% RPD limit. No data were qualified based on field duplicate precision.

Results reported for field duplicate pair COB04/COBH2 RPD for PAH exceeded the 25% RPD limit for multiple analytes (Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene and Benzo(g,h,i)perylene). No data were qualified based on field duplicate precision.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample | DF  | Analyte   |
|----------|--------|-----|---|
| PAH      | COAY8  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene  |
|          | COAZ1  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene  |
|          | COAZ3  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene  |
|          | COB56  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene  |
|          | COB61  | 5x  | Fluoranthene, Pyrene, Benzo(b)fluoranthene, Benzo(a)pyrene,   |
|          | COB62  | 10x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene  |
|          | COBB5  | 5x  | Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene |
|          | COBH4  | 10x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene  |

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

**Glossary of Organic Data Qualifier Codes**


---

|                       |  |
|-----------------------|--|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result. |
|-----------------------|--|

---

|    |   |
|----|---|
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                          |
| U  | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.   |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |

---

|                       |  |
|-----------------------|--|
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers. |
|-----------------------|--|

---

|   |   |
|---|---|
| N | The analyte has been “tentatively identified” or “presumptively” as present.  |
| B | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: ABLK24

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: ALCS24

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0AY8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-125

pH:

Sample Date: 11/18/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 74.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-125 | pH:                | Sample Date: 11/18/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                    | % Solids: 74.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.28              | J               | ug/kg | 0.28       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-125 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                       | % Solids: 74.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| unknown-02                         | TIC          | 240               | J               | ug/kg | 240        | J        | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 210               | N               | ug/kg | 210        | N        | 1.0             | YES        | NV               |
| Phenol, 2-(2H-benzotriazol-2-yl)-4 | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 260               | J               | ug/kg | 260        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-125 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                              | % Solids: 74.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 68                |                 | ug/kg | 68         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 72                |                 | ug/kg | 72         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-128

pH:

Sample Date: 11/18/2020

Sample Time: 09:20:00

% Moisture:

% Solids: 79.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                    | % Solids: 79.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.80              | J               | ug/kg | 0.80       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.87              | J               | ug/kg | 0.87       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.41              | J               | ug/kg | 0.41       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                       | % Solids: 79.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 230               | N               | ug/kg | 230        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                              | % Solids: 79.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 93                |                 | ug/kg | 93         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-130

pH:

Sample Date: 11/18/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 11                | J               | ug/kg | 11         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                    | % Solids: 82.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.97              | J               | ug/kg | 0.97       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.39              | J               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                       | % Solids: 82.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                  | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                  | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                        | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate          | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine         | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene            | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                      | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate    | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate          | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene          | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene          | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene        | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene          | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexacosyl heptafluorobutyrate | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                 | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                              | % Solids: 82.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 7.1               |                 | ug/kg | 7.1        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 6.2               |                 | ug/kg | 6.2        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 6.4               |                 | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.1               | U               | ug/kg | 8.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 89                |                 | ug/kg | 89         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 91                |                 | ug/kg | 91         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 91                |                 | ug/kg | 91         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 89                |                 | ug/kg | 89         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0AZ4        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-131 | pH:              | Sample Date: 11/18/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                  | % Solids: 74.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 6.2               | J               | ug/kg | 6.2        | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-131 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                    | % Solids: 74.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.50              | J               | ug/kg | 0.50       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-131 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                       | % Solids: 74.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 7-Heptadecene, 17-chloro-  | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-131 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                              | % Solids: 74.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B02

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-139

pH:

Sample Date: 11/18/2020

Sample Time: 14:05:00

% Moisture:

% Solids: 74.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B02        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                    | % Solids: 74.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B02        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                       | % Solids: 74.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 240               | N               | ug/kg | 240        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B02        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                              | % Solids: 74.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 8.8               |                 | ug/kg | 8.8        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 8.6               |                 | ug/kg | 8.6        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 9.3               |                 | ug/kg | 9.3        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B04

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-141

pH:

Sample Date: 11/18/2020

Sample Time: 14:50:00

% Moisture:

% Solids: 82.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B04        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                    | % Solids: 82.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.36              | J               | ug/kg | 0.36       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.49              | J               | ug/kg | 0.49       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B04        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                       | % Solids: 82.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 240               | N               | ug/kg | 240        | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B04        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                              | % Solids: 82.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.93              | J               | ug/kg | 0.93       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.93              | J               | ug/kg | 0.93       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.93              | J               | ug/kg | 0.93       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.1               | U               | ug/kg | 8.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.1               |                 | ug/kg | 7.1        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 8.5               |                 | ug/kg | 8.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 9.4               |                 | ug/kg | 9.4        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B04MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:50:00

% Moisture:

% Solids: 82.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 180               |                 | ug/kg | 180        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 140               |                 | ug/kg | 140        |          | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B04MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:            |                    | % Solids: 82.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.86              | J               | ug/kg | 0.86       | JP       | 1.0             | YES        | NV               |
| Endrin              | Spike        | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                         |                  |                         |                       |
|-------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B04MSD | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:              | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:             |                  | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 170               |                 | ug/kg | 170        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 130               |                 | ug/kg | 130        |          | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B04MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:             |                    | % Solids: 82.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 0.80              | J               | ug/kg | 0.80       | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B56

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-125

pH:

Sample Date: 11/18/2020

Sample Time: 08:30:00

% Moisture:

% Solids: 75.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B56        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-125 | pH:                | Sample Date: 11/18/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                    | % Solids: 75.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.32              | J               | ug/kg | 0.32       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | J               | ug/kg | 1.7        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.91              | J               | ug/kg | 0.91       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B56        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-125 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                       | % Solids: 75.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | UJ              | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 300               | J               | ug/kg | 300        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B56        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-125 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                              | % Solids: 75.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 64                |                 | ug/kg | 64         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 75                |                 | ug/kg | 75         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 72                |                 | ug/kg | 72         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 92                |                 | ug/kg | 92         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 62                |                 | ug/kg | 62         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B59        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:              | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                  | % Solids: 77.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B59        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:                | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                    | % Solids: 77.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.39              | J               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.32              | J               | ug/kg | 0.32       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B59        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                       | % Solids: 77.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene, 2-methyl-    | TIC          | 97                | JN              | ug/kg | 97         | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B59        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                              | % Solids: 77.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 68                |                 | ug/kg | 68         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 66                |                 | ug/kg | 66         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 58                |                 | ug/kg | 58         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 62                |                 | ug/kg | 62         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B61

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-130

pH:

Sample Date: 11/18/2020

Sample Time: 10:15:00

% Moisture:

% Solids: 73.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B61        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-130 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                    | % Solids: 73.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.75              | J               | ug/kg | 0.75       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B61        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-130 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                       | % Solids: 73.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B61        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-130 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                              | % Solids: 73.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 90                |                 | ug/kg | 90         | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 86                |                 | ug/kg | 86         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 72                |                 | ug/kg | 72         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 60                |                 | ug/kg | 60         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B62

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-131

pH:

Sample Date: 11/18/2020

Sample Time: 10:50:00

% Moisture:

% Solids: 74.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B62        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-131 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                    | % Solids: 74.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B62        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-131 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                       | % Solids: 74.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | J               | ug/kg | 400        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 270               | N               | ug/kg | 270        | N        | 1.0             | YES        | NV               |
| 2-Heptenal, (E)-           | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B62        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-131 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                              | % Solids: 74.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 170               |                 | ug/kg | 170        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 390               |                 | ug/kg | 390        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 350               |                 | ug/kg | 350        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 220               |                 | ug/kg | 220        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 290               |                 | ug/kg | 290        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 99                |                 | ug/kg | 99         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 100               |                 | ug/kg | 100        | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0B70

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-139

pH:

Sample Date: 11/18/2020

Sample Time: 14:10:00

% Moisture:

% Solids: 70.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B70        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-139 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                    | % Solids: 70.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.51              | J               | ug/kg | 0.51       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZI

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B70        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-139 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                       | % Solids: 70.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B70        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-139 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                              | % Solids: 70.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BB3        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:              | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                  | % Solids: 81.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:                | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                    | % Solids: 81.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                       | % Solids: 81.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Cinnamyl cinnamate                    | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Acetic acid, chloro-, hexadecyl<br>es | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                              | % Solids: 81.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BB5        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:              | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                  | % Solids: 79.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 540               | J               | ug/kg | 540        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                    | % Solids: 79.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.22              | J               | ug/kg | 0.22       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.2               | J               | ug/kg | 5.2        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.6               | J               | ug/kg | 3.6        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                       | % Solids: 79.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 2400              |                 | ug/kg | 2400       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 640               |                 | ug/kg | 640        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 2900              |                 | ug/kg | 2900       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 2400              |                 | ug/kg | 2400       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 590               |                 | ug/kg | 590        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 550               |                 | ug/kg | 550        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 570               |                 | ug/kg | 570        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphtho[2,1-b]thiophene            | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2,3,6-trimethyl-      | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |
| Benzo[c]cinnoline, 4-methyl-       | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 3,3-Diaminodiphenylmethane         | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Benzo[k]xanthene                   | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 870               | JN              | ug/kg | 870        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzon       | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrene        | TIC          | 510               | JN              | ug/kg | 510        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-ol                    | TIC          | 290               | JN              | ug/kg | 290        | JN       | 1.0             | YES        | NV               |
| 2,2-Dimethyl-1-acenaphthenone      | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-ethyl-               | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Benzene, 1,2,4-trimethyl-          | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| trans-Crotonamide                  | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| [14]Annulene, 1,6:8,13-bis(methano | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,3-dimethyl-         | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 650               | JN              | ug/kg | 650        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,4,6-trimethyl-      | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |
| Benzenamine, 4-[(E)-2-(4-pyridinyl | TIC          | 99                | JN              | ug/kg | 99         | JN       | 1.0             | YES        | NV               |
| Indeno[2,1-b]chromene,             | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,6,7-trimethyl-      | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                   | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Dibenzofuran, 4-methyl-            | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| 8-Dimethylaminonaphthalene-1-carbo | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| 3-(2-Methyl-propenyl)-1H-indene    | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Anthracene, 1-methyl-              | TIC          | 550               | JN              | ug/kg | 550        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 3,6-dimethyl-        | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                              | % Solids: 79.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 63                |                 | ug/kg | 63         | D        | 5.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 75                |                 | ug/kg | 75         | D        | 5.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 91                |                 | ug/kg | 91         | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 4.6               | J               | ug/kg | 4.6        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 2500              | J               | ug/kg | 2500       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 750               | J               | ug/kg | 750        | ED       | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3000              | J               | ug/kg | 3000       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3200              | J               | ug/kg | 3200       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 2000              | J               | ug/kg | 2000       | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 540               | J               | ug/kg | 540        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0BB7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-130

pH:

Sample Date: 11/18/2020

Sample Time: 10:20:00

% Moisture:

% Solids: 81.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-130 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                    | % Solids: 81.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-130 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                       | % Solids: 81.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1-Heptacosanol             | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-130 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                              | % Solids: 81.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.85              | J               | ug/kg | 0.85       | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.89              | J               | ug/kg | 0.89       | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0BB8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-131

pH:

Sample Date: 11/18/2020

Sample Time: 10:55:00

% Moisture:

% Solids: 80.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                    | % Solids: 80.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                       | % Solids: 80.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | NV               |
| Limonene                           | TIC          | 86                | JN              | ug/kg | 86         | JN       | 1.0             | YES        | NV               |
| (1R)-2,6,6-Trimethylbicyclo[3.1.1] | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                              | % Solids: 80.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0BC3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-139

pH:

Sample Date: 11/18/2020

Sample Time: 14:15:00

% Moisture:

% Solids: 79.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-139 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                    | % Solids: 79.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-139 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                       | % Solids: 79.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Acetic acid, trifluoro-, dodecyl e | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-139 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                              | % Solids: 79.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

Sample Number: C0BH2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-141-01

pH:

Sample Date: 11/18/2020

Sample Time: 14:30:00

% Moisture:

% Solids: 81.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 73                |                 | ug/kg | 73         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                    | % Solids: 81.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.45              | J               | ug/kg | 0.45       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.39              | J               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                       | % Solids: 81.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Trifluoroacetic acid, pentadecyl<br>e | TIC          | 290               | JN              | ug/kg | 290        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH2           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                              | % Solids: 81.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BH3           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:              | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                  | % Solids: 81.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH3           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                    | % Solids: 81.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH3           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                       | % Solids: 81.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Dichloroacetic acid, heptadecyl<br>es | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH3           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                              | % Solids: 81.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ1

**Lab Name:** Chemtech Consulting Group

|                                |                  |                         |                       |
|--------------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BH4           | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:              | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                  | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 30                | J               | ug/kg | 30         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 24                | J               | ug/kg | 24         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH4           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                    | % Solids: 72.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.38              | J               | ug/kg | 0.38       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.34              | J               | ug/kg | 0.34       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 3.5               | J-              | ug/kg | 3.5        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.5               | J-              | ug/kg | 2.5        |          | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH4           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                       | % Solids: 72.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | J               | ug/kg | 390        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 460               | N               | ug/kg | 460        | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH4           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                              | % Solids: 72.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.6               |                 | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 140               |                 | ug/kg | 140        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 350               |                 | ug/kg | 350        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 380               |                 | ug/kg | 380        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 230               |                 | ug/kg | 230        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 240               |                 | ug/kg | 240        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 320               |                 | ug/kg | 320        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 210               |                 | ug/kg | 210        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 94                |                 | ug/kg | 94         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 98                |                 | ug/kg | 98         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK50 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS50 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.6               | J               | ug/kg | 2.6        | JP       | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK51 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK52 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ1

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AZ5 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

**(b) (4)**

TO: #0002 TDF: #1220036







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 5, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COAZ5

### Overview

This data package consisted of twenty (20) soil samples analyzed for semivolatile, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), pesticides, and Aroclors.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 10, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. DMC/surrogate recovery, blank contamination and concentrations exceeding calibration range required qualification of results.

### Minor Problem

Percent recoveries for the following DMC/surrogate were outside the lower control limit for the samples listed below. Detected results were <CRQL for the associated target analytes in these samples. Quantitation limits are estimated and have been qualified "UJ".

| Fraction     | DMC/Surrogate      | Affected Samples                  |
|--------------|--------------------|-----------------------------------|
| Semivolatile | 1,4-Dioxane-d8     | COB63                             |
| Pesticide    | Decachlorobiphenyl | COAZ5, COAZ6, COB63, COB64, COB68 |

The following analytes exceeded calibration range in the analysis of sample listed below; the sample was not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COB68  | 5x | Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene |

### Notes

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Method blanks were free from contamination for all fractions.

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits except for recoveries of Aroclor-1260 on one (1) analytical column. No data were qualified based on MS/MSD accuracy and precision.

Percent recoveries for the following DMCs were outside the upper control limit for samples listed below. The associated analytes were not detected in the samples. Quantitation limits are not qualified.

| Fraction     | DMC                           | Affected Samples |
|--------------|-------------------------------|------------------|
| Semivolatile | 2-Nitrophenol-d4              | COBA7, COBH5     |
|              | 4,6-Dinitro-2-methylphenol-d2 | COBA7            |

The percent recovery for semivolatile DMC 4-chloroaniline-d4 was < 10% for sample COB63 which exceeds the advisory criteria minimum. No data were qualified based on this finding.

Chain of Custody Records (COCs) list sample COBH5 as field duplicate; however, COCs did not include reference regarding the identification of the corresponding sample. Therefore, no comparison was made.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction     | Sample       | DF  | Analyte  |
|--------------|--------------|-----|--|
| Semivolatile | COB64        | 20x | Butylbenzylphthalate   |
| PAH          | COAZ5        | 5x  | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene |
|              | COB63, COB64 | 5x  | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|              | COB68        | 5x  | Fluoranthene, Pyrene, Benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|              | COB72        | 5x  | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene |

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COB72. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

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 Glossary of Organic Data Qualifier Codes
 

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Validation Qualifiers    In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

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Additional Qualifiers    Additional qualifiers may be combined with other qualifiers.

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- N            The analyte has been “tentatively identified” or “presumptively” as present.
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- C            The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
- X            The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: ABLK49

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: ALCS49

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-132

pH:

Sample Date: 11/18/2020

Sample Time: 11:30:00

% Moisture:

% Solids: 76.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-132 | pH:                | Sample Date: 11/18/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                    | % Solids: 76.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-132 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                       | % Solids: 76.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Metacetamol                | TIC          | 350               | JN              | ug/kg | 350        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-132 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                              | % Solids: 76.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 86                |                 | ug/kg | 86         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 99                |                 | ug/kg | 99         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-133

pH:

Sample Date: 11/18/2020

Sample Time: 12:05:00

% Moisture:

% Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-133 | pH:                | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                    | % Solids: 82.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-133 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                       | % Solids: 82.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Cinnamyl cinnamate         | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-133 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                              | % Solids: 82.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.1               | U               | ug/kg | 8.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 5.9               |                 | ug/kg | 5.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0B00

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-137

pH:

Sample Date: 11/18/2020

Sample Time: 13:00:00

% Moisture:

% Solids: 79.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B00        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                    | % Solids: 79.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B00        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                       | % Solids: 79.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B00        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                              | % Solids: 79.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B63        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-132 | pH:              | Sample Date: 11/18/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                  | % Solids: 73.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B63        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-132 | pH:                | Sample Date: 11/18/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                    | % Solids: 73.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B63        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-132 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                       | % Solids: 73.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | UJ              | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |
| Cinnamyl cinnamate         | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B63        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-132 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                              | % Solids: 73.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 97                |                 | ug/kg | 97         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0B64

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-133

pH:

Sample Date: 11/18/2020

Sample Time: 12:10:00

% Moisture:

% Solids: 78.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B64        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-133 | pH:                | Sample Date: 11/18/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                    | % Solids: 78.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.43              | J               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.86              | J               | ug/kg | 0.86       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.48              | J               | ug/kg | 0.48       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B64        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-133 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                       | % Solids: 78.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 27000             |                 | ug/kg | 27000      | D        | 20.0            | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 2900              |                 | ug/kg | 2900       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Phthalic acid, 4-bromobenzyl octyl | TIC          | 1100              | JN              | ug/kg | 1100       | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 3,4-difluorobenzyl  | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 2-(Allyloxycarbonyl)benzoic acid   | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| Adamantane, 1-isothiocyanato-3-met | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 89                | N               | ug/kg | 89         | N        | 1.0             | YES        | NV               |
| Phthalic acid, octyl 1-phenylpropy | TIC          | 1500              | JN              | ug/kg | 1500       | JN       | 1.0             | YES        | NV               |
| Phthalic acid, heptyl pent-2-en-4- | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 7-methyloct-3-yn-5- | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, benzyl 2-ethylhexyl | TIC          | 1600              | JN              | ug/kg | 1600       | JN       | 1.0             | YES        | NV               |
| Benzene, (1,1,4,6,6-pentamethylhep | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| 3-Methyl-p-anisaldehyde            | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| 2,2,4-Trimethyl-1,3-pentanediol di | TIC          | 490               | JN              | ug/kg | 490        | JN       | 1.0             | YES        | NV               |
| Benzene, 1-dimethylamino-4-(2-cyan | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Benzene, 1-methyl-3-(1-methylethyl | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Dibenzyl phthalate                 | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 530               | J               | ug/kg | 530        | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 250               | J               | ug/kg | 250        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B64        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-133 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                              | % Solids: 78.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 110               |                 | ug/kg | 110        | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 100               |                 | ug/kg | 100        | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 88                |                 | ug/kg | 88         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ5

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B68        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-137 | pH:              | Sample Date: 11/18/2020 | Sample Time: 13:05:00 |
| % Moisture:                 |                  | % Solids: 79.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B68        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-137 | pH:                | Sample Date: 11/18/2020 | Sample Time: 13:05:00 |
| % Moisture:                 |                    | % Solids: 79.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B68        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-137 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 13:05:00 |
| % Moisture:                 |                       | % Solids: 79.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B68        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-137 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 13:05:00 |
| % Moisture:                 |                              | % Solids: 79.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.84              | J               | ug/kg | 0.84       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.88              | J               | ug/kg | 0.88       | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 350               | J               | ug/kg | 350        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 380               | J               | ug/kg | 380        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 570               | J               | ug/kg | 570        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 360               | J               | ug/kg | 360        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ5

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B72        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:              | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                  | % Solids: 76.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 20                | J               | ug/kg | 20         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B72        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                    | % Solids: 76.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.91              | J               | ug/kg | 0.91       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B72        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                       | % Solids: 76.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Cinnamyl cinnamate         | TIC          | 870               | JN              | ug/kg | 870        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Metacetamol                | TIC          | 340               | JN              | ug/kg | 340        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B72        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                              | % Solids: 76.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 62                |                 | ug/kg | 62         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0B72MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:55:00

% Moisture:

% Solids: 76.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 130               |                 | ug/kg | 130        |          | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B72MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:            |                    | % Solids: 76.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.87              | J               | ug/kg | 0.87       | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.77              | J               | ug/kg | 0.77       | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0B72MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:55:00

% Moisture:

% Solids: 76.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 130               |                 | ug/kg | 130        |          | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B72MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:             |                    | % Solids: 76.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.88              | J               | ug/kg | 0.88       | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BA1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-103

pH:

Sample Date: 11/18/2020

Sample Time: 08:50:00

% Moisture:

% Solids: 84.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-103 | pH:                | Sample Date: 11/18/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                    | % Solids: 84.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-103 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                       | % Solids: 84.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| E-15-Heptadecenal          | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-103 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                              | % Solids: 84.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.98              | J               | ug/kg | 0.98       | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BA4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-110

pH:

Sample Date: 11/18/2020

Sample Time: 10:35:00

% Moisture:

% Solids: 83.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                    | % Solids: 83.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.30              | J               | ug/kg | 0.30       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                       | % Solids: 83.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                              | % Solids: 83.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.6               |                 | ug/kg | 7.6        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 6.3               |                 | ug/kg | 6.3        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 6.1               |                 | ug/kg | 6.1        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BA7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-115

pH:

Sample Date: 11/18/2020

Sample Time: 11:45:00

% Moisture:

% Solids: 78.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                    | % Solids: 78.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                       | % Solids: 78.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1-Docosanethiol            | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                              | % Solids: 78.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ5

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BB0        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:              | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                  | % Solids: 81.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:                | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                    | % Solids: 81.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                       | % Solids: 81.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 150               | N               | ug/kg | 150        | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                              | % Solids: 81.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BB1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-121

pH:

Sample Date: 11/18/2020

Sample Time: 14:15:00

% Moisture:

% Solids: 83.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                    | % Solids: 83.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                       | % Solids: 83.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name                      | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                     | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Bromoacetic acid, hexadecyl ester | TIC          | 380               | JN              | ug/kg | 380        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                              | % Solids: 83.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.91              | J               | ug/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BB4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-126

pH:

Sample Date: 11/18/2020

Sample Time: 15:20:00

% Moisture:

% Solids: 86.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                    | % Solids: 86.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                       | % Solids: 86.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 77                | U               | ug/kg | 77         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 230               | N               | ug/kg | 230        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                              | % Solids: 86.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.7               | U               | ug/kg | 7.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ5

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BD3        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:              | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                  | % Solids: 81.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                    | % Solids: 81.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                       | % Solids: 81.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| unknown-03                 | TIC          | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | NV               |
| unknown-05                 | TIC          | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 200               | N               | ug/kg | 200        | N        | 1.0             | YES        | NV               |
| unknown-04                 | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |
| unknown-02                 | TIC          | 240               | J               | ug/kg | 240        | J        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                              | % Solids: 81.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BD4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-110

pH:

Sample Date: 11/18/2020

Sample Time: 10:55:00

% Moisture:

% Solids: 85.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-110 | pH:                | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                    | % Solids: 85.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-110 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                       | % Solids: 85.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| unknown-03                 | TIC          | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 270               | N               | ug/kg | 270        | N        | 1.0             | YES        | NV               |
| unknown-02                 | TIC          | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | NV               |
| Myristin, 1,3-diaceto-2-   | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| unknown-04                 | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-110 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                              | % Solids: 85.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0AZ5

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BD5        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:              | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                  | % Solids: 89.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                    | % Solids: 89.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                       | % Solids: 89.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 75                | U               | ug/kg | 75         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| unknown-04                 | TIC          | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | NV               |
| unknown-05                 | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| unknown-06                 | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |
| unknown-03                 | TIC          | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | NV               |
| unknown-02                 | TIC          | 300               | J               | ug/kg | 300        | J        | 1.0             | YES        | NV               |
| Myristin, 1,3-diaceto-2-   | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                              | % Solids: 89.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BD6        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:              | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                  | % Solids: 80.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                    | % Solids: 80.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                       | % Solids: 80.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 170               | N               | ug/kg | 170        | N        | 1.0             | YES        | NV               |
| Triacetin                  | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                              | % Solids: 80.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BD7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-121

pH:

Sample Date: 11/18/2020

Sample Time: 14:45:00

% Moisture:

% Solids: 90.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                    | % Solids: 90.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                       | % Solids: 90.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 73                | U               | ug/kg | 73         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Metacetamol                | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 120               | N               | ug/kg | 120        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                              | % Solids: 90.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BD8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-126

pH:

Sample Date: 11/18/2020

Sample Time: 15:40:00

% Moisture:

% Solids: 71.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-126 | pH:                | Sample Date: 11/18/2020 | Sample Time: 15:40:00 |
| % Moisture:                 |                    | % Solids: 71.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-126 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 15:40:00 |
| % Moisture:                 |                       | % Solids: 71.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 570               |                 | ug/kg | 570        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 280               | N               | ug/kg | 280        | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 440               | JN              | ug/kg | 440        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-126 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 15:40:00 |
| % Moisture:                 |                              | % Solids: 71.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

Sample Number: C0BH5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-121-01

pH:

Sample Date: 11/18/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 81.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                    | % Solids: 81.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                       | % Solids: 81.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 190               | N               | ug/kg | 190        | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 860               | JN              | ug/kg | 860        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                              | % Solids: 81.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.99              | J               | ug/kg | 0.99       | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.95              | J               | ug/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK81 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS81 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.4               |                 | ug/kg | 3.4        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK82 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK83 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ5

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/11/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0AZ9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220043





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 10, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COAZ9

### **Overview**

This data package consisted of nineteen (19) soil samples analyzed for low volatiles.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 10, 2020.

### **Summary**

Significant internal standard (IS) area response outliers were identified that required rejection of sample results. IS area response, Deuterated Monitoring Compound (DMC) recoveries, calibration precision and blank contamination required qualification of results.

### **Major Problem**

Area response for all three ISs were outside the lower control limits and < 10% for sample COBC6. This sample was re-analyzed with similar results. ". Results from the re-analysis were reported. Detected analytes may be estimated high and have been qualified "J+". Quantitation limits are unusable and have been qualified "R

**Minor Problem**

Trichloroethene (TCE) failed percent difference (%D) criteria in calibration standard VSTD02519. TCE was not detected in the associated samples. Quantitation limits are estimated and have been qualified "UJ".

Percent recovery for DMC 1,2-dichlorobenzene-d4 was outside the lower control limits for sample COE0. The associated analytes were not detected in the sample. Quantitation limits are estimated and have been qualified "UJ".

Area response for all three ISs were outside the lower control limits for sample COB19. The sample was re-analyzed with similar result. Results from the re-analysis are reported. No analytes were detected in this sample. Quantitation limits are estimated and have been qualified "UJ".

**Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

All method blanks and storage blank VHBLK01 reported concentrations of methylene chloride less than the CRQL; method blank VBLK09 reported a concentration of 4-methyl-2-pentanone less than the CRQL; method blank VBLK11 reported a concentration of acetone less than the CRQL. Detected concentrations of these analytes less than the CRQL in the associated samples have been reported at CRQL and qualified "U". Detected concentrations of the methylene chloride  $\geq$  CRQL and  $\leq 2x$  blank results in associated samples have been reported at sample result and qualified "U".

Percent recovery for DMC 1,2-dichloropropane-d6 was outside the upper control limit for sample COBE4. The associated analytes were not detected in the sample. Quantitation limits are not qualified.

For instrument MSVOA\_W, the average RRF in the initial calibrations and the minimum RRF for continuing calibration standards were not met for DMC trans-1,3-dichloropropene-d4. No samples are qualified based on this DMC calibration.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on samples COBD9 and COBE3. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

### Glossary of Organic Data Qualifier Codes

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Validation Qualifiers In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

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Additional Qualifiers Additional qualifiers may be combined with other qualifiers.

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- N The analyte has been “tentatively identified” or “presumptively” as present.
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
- X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ9

Method: Volatile Organics

Matrix: Soil

MA Number:

Sample Location: NLR-SS-136

pH:

Sample Date: 11/19/2020

Sample Time: 09:30:00

% Moisture:

% Solids: 71.1

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 4.8        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.2               |                 | ug/kg | 9.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B06        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                           | % Solids: 76.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.3               | U               | ug/kg | 4.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.3               | U               | ug/kg | 6.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B09        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-146 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                           | % Solids: 71.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.4               | U               | ug/kg | 5.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.4               | UJ              | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 2.8        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

| Analyte Name     | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dimethyl sulfide | TIC          | 6.5               | JN              | ug/kg | 6.5        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B19        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-156 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                           | % Solids: 70.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | UJ              | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.8               | UJ              | ug/kg | 4.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | UJ              | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | UJ              | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | UJ              | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.8               | UJ              | ug/kg | 6.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B20        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-157 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:05:00 |
| % Moisture:                 |                           | % Solids: 78.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 4.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                           | % Solids: 85.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.2               |                 | ug/kg | 8.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                           | % Solids: 79.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.2               |                 | ug/kg | 7.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                           | % Solids: 80.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.5               |                 | ug/kg | 8.5        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.9               | U               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 80.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | R               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 14                | J+              | ug/kg | 14         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | R               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | R               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | R               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.9               | R               | ug/kg | 6.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC7        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                           | % Solids: 84.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.3               | U               | ug/kg | 5.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.3               | UJ              | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 1.9        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                           | % Solids: 83.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 4.7        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.5               |                 | ug/kg | 9.5        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BC9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                           | % Solids: 81.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.5               | U               | ug/kg | 4.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | UJ              | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                           | % Solids: 89.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 6.5               | J               | ug/kg | 6.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 5.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 1.9        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BE0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                           | % Solids: 85.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 1.7        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | UJ              | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BE1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                           | % Solids: 81.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.0               |                 | ug/kg | 8.0        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | UJ              | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 4.0        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BE2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                           | % Solids: 82.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/kg | 3.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BE3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                           | % Solids: 92.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 31                | U               | ug/kg | 12         | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 20                |                 | ug/kg | 20         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 31                | U               | ug/kg | 31         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 31                | U               | ug/kg | 31         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 16                | U               | ug/kg | 16         | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                           | % Solids: 84.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.6               | U               | ug/kg | 4.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | UJ              | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 1.9        | JB       | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                           | % Solids: 83.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK09 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK11 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK84 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK99 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0AZ9

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/11/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink, appearing to read "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B06 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220042





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 10, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COB06

### **Overview**

This data package consisted of twenty (20) soil samples analyzed for Aroclors, pesticide, semivolatile target analytes and Polynuclear Aromatic Hydrocarbon (PAH) by Selective Ion Monitoring (SIM) analysis. This sample set included a field duplicate sample.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 10, 2020.

### **Summary**

Dual column precision and Deuterated Monitoring Compound (DMC) recoveries outliers were identified that resulted in the rejection as well as the estimation of sample results. DMC/Surrogate recoveries, calibration precision, and dual column precision required estimation of results.

### **Major Problems**

Pesticide target analyte heptachlor epoxide had a percent difference (%D) > 200% between the dual column analyses. The large %D between the two results may indicate interferences impacting the analyte. Reported result for this analyte in sample COAZ9 has been rejected and qualified "R".

Percent recoveries for the following DMCs were less than 10% in sample listed below. Analytes associated with these DMCs were non-detect in this sample. Non-detects are unusable and have been qualified "R".

| Fraction | Affected Sample | Affected Analytes                               |
|----------|-----------------|---|
| SVOA     | COBC4           | 4-Nitrophenol-d4, 4,6-Dinitro-2-methylphenol-d2 |

### **Minor Problems**

Percent recoveries for the following DMC were outside the lower control limit in samples listed below. The analyte associated with this DMC was non-detect in these samples. Non-detects are estimated and have been qualified "UJ".

| Fraction | DMCs           | Affected Samples |
|----------|----------------|------------------|
| SVOA     | 1,4-Dioxane-d8 | COB09, COB67     |

Percent recoveries for the following surrogate was outside the lower control limit for the samples listed below. Detected concentrations for target analytes associated with this DMC are estimated and have been qualified "J". Non-detects are estimated and have been qualified "UJ".

| Fraction  | Surrogate          | Affected Samples  |
|-----------|--------------------|---|
| Pesticide | Decachlorobiphenyl | COAZ9, COB06, COB19, COB20, COB23, COB67, COB77, COB91, COB92 |

The laboratory reported the following target analytes failed the precision criteria (%D) in the continuing calibration verification (CCV) standard listed below. Detected concentrations for these analytes in the associated field samples are estimated and have been qualified "J". Non-detects are estimated and have been qualified "UJ".

| Fraction | Standard IDs                               | Affected analytes                                    | Associated Samples   |
|----------|--|--|--|
| SVOA     | SSTD02069                                  | 1,4-Dioxane  | COB24, COB19, COB67, COBC0, COBH1, COBC2, COBC4, COB23, COB77, COB91, COB88, COB92                     |
|          | SSTD02071                                  | Hexachlorobutadiene                                  | COAZ9, COB06, COB09, COB20, COBH7  |
|          | SSTD02072                                  | Hexachlorobenzene, Hexachlorobutadiene, Fluoranthene |  |
| PAH      | SSTD0.416, SSTD0.417, SSTD0.418, SSTD0.419 | Benzo(a)anthracene                                   | COB19, COB67, COBB9, COBC0, COBC2, COBC4, COBC6, COBC9, COBH1, COBH7, Diluted analysis of sample COB20 |

The following analytes exceeded calibration range in the analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte                            |
|----------|--------|----|------------------------------------|
| PAH      | COB20  | 5x | Fluoranthene, Pyrene               |
|          | COB77  | 5x | Phenanthrene, Fluoranthene, Pyrene |

### **Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

All other reported results base on dual column precision were less than the CRQL.

In the pest/Aroclors/semivolatile/SIM fractions, method blanks were free from contaminations.

Percent recoveries for Aroclors/pesticide target analytes in Laboratory Control Sample (LCS) analyses were within control limits on both columns. No data were qualified based on LCS precision or accuracy.

Percent recoveries and Relative Percent Differences (RPDs) for pesticide/Aroclors target analytes in Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis of sample COBC4 were within control limits on both columns. No data were qualified based on this finding.

The laboratory noted sample COB24 exceed calibration range for PAH analytes, therefore this sample is not reanalyzed for SIM analysis. No data were qualified based on this finding.

Sample COB24 had a high recovery for pesticide surrogate tetrachloro-m-xylene. This sample was non-detect for pesticide analytes. No data were qualified based on this outlier.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample | DF  | Analyte  |
|----------|--------|-----|--|
| SVOA     | COB24  | 5x  | Phenanthrene, Pyrene, Benzo(b)fluoranthene   |
| PAH      | COA29  | 10x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene |
|          | COB06  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                         |
|          | COB09  | 2x  | Fluoranthene, Pyrene   |
|          | COB20  | 5x  | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|          | COB77  | 5x  | Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|          | COB88  | 5x  | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|          | COB92  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(a)pyrene, Benzo(b)fluoranthene   |

Surrogate recoveries requirements do not apply to samples that have been diluted.

Sample COBH77 is identified as a field duplicate sample on the chain of custody record. Sufficient information was not provided to identify the duplicate sample. Comparison of results could not be made.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

#### Glossary of Organic Data Qualifier Codes

| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
|-----------------------|---|
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                       |
| U                     | The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: ABLK80

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS80 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-136

pH:

Sample Date: 11/19/2020

Sample Time: 09:30:00

% Moisture:

% Solids: 71.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-136 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                    | % Solids: 71.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.40              | J               | ug/kg | 0.40       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 3.4               | R               | ug/kg | 3.4        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.80              | J               | ug/kg | 0.80       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.58              | J               | ug/kg | 0.58       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.44              | J               | ug/kg | 0.44       | JP       | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 14                | J               | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 4.0               | J               | ug/kg | 4.0        |          | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-136 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                       | % Solids: 71.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 610               | J               | ug/kg | 610        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 440               |                 | ug/kg | 440        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-136 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                              | % Solids: 71.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 180               |                 | ug/kg | 180        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 600               |                 | ug/kg | 600        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 520               |                 | ug/kg | 520        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 300               |                 | ug/kg | 300        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 400               |                 | ug/kg | 400        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 550               |                 | ug/kg | 550        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 360               |                 | ug/kg | 360        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 220               |                 | ug/kg | 220        | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 63                |                 | ug/kg | 63         | D        | 10.0            | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 230               |                 | ug/kg | 230        | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B06

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-143

pH:

Sample Date: 11/19/2020

Sample Time: 11:45:00

% Moisture:

% Solids: 76.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B06        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                    | % Solids: 76.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.43              | J               | ug/kg | 0.43       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.40              | J               | ug/kg | 0.40       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B06        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                       | % Solids: 76.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 340               | J               | ug/kg | 340        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B06        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                              | % Solids: 76.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.6               |                 | ug/kg | 7.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 320               |                 | ug/kg | 320        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 81                |                 | ug/kg | 81         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 83                |                 | ug/kg | 83         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 87                |                 | ug/kg | 87         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B09

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-146

pH:

Sample Date: 11/19/2020

Sample Time: 10:25:00

% Moisture:

% Solids: 71.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B09        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-146 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                    | % Solids: 71.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B09        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-146 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                       | % Solids: 71.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | UJ              | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B09        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-146 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                              | % Solids: 71.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 88                |                 | ug/kg | 88         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 80                |                 | ug/kg | 80         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 73                |                 | ug/kg | 73         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B19

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-156

pH:

Sample Date: 11/19/2020

Sample Time: 13:55:00

% Moisture:

% Solids: 70.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B19        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-156 | pH:                | Sample Date: 11/19/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                    | % Solids: 70.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B19        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-156 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                       | % Solids: 70.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 95                | UJ              | ug/kg | 95         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B19        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-156 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                              | % Solids: 70.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 30                | J               | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B20

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-157

pH:

Sample Date: 11/19/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 78.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B20        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-157 | pH:                | Sample Date: 11/19/2020 | Sample Time: 08:05:00 |
| % Moisture:                 |                    | % Solids: 78.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B20        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-157 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 08:05:00 |
| % Moisture:                 |                       | % Solids: 78.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 480               | J               | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Heptafluorobutyric acid, hexadecyl | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 86                | JN              | ug/kg | 86         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B20        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-157 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 08:05:00 |
| % Moisture:                 |                              | % Solids: 78.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.3               |                 | ug/kg | 4.3        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.2               |                 | ug/kg | 6.2        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 420               | J               | ug/kg | 420        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 400               | J               | ug/kg | 400        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 180               | J               | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 66                |                 | ug/kg | 66         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 79                |                 | ug/kg | 79         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 79                |                 | ug/kg | 79         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B23

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-160

pH:

Sample Date: 11/19/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 79.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B23        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-160 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                    | % Solids: 79.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.25              | J               | ug/kg | 0.25       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | UJ              | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B23        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-160 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                       | % Solids: 79.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | UJ              | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 42                | J               | ug/kg | 42         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-02                 | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B23        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-160 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                              | % Solids: 79.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.9               |                 | ug/kg | 4.9        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B24

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-161

pH:

Sample Date: 11/19/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 76.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B24        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-161 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                    | % Solids: 76.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B24        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-161 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                       | % Solids: 76.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | UJ              | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5200              |                 | ug/kg | 5200       | D        | 5.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 850               |                 | ug/kg | 850        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 650               |                 | ug/kg | 650        |          | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 6400              |                 | ug/kg | 6400       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 6700              |                 | ug/kg | 6700       | D        | 5.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 3400              |                 | ug/kg | 3400       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 3500              |                 | ug/kg | 3500       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 4900              |                 | ug/kg | 4900       | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 3200              |                 | ug/kg | 3200       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 630               |                 | ug/kg | 630        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Phenol, 3-(2-phenylethenyl)-, (E)- | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| Perylene                           | TIC          | 480               | JN              | ug/kg | 480        | JN       | 1.0             | YES        | NV               |
| Dinaphtho[1,2-b:1,2-d]furan        | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-methyl-              | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 490               | JN              | ug/kg | 490        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one         | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 680               | JN              | ug/kg | 680        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| unknown-04                         | TIC          | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,4-dimethyl-         | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-ol                    | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-            | TIC          | 930               | JN              | ug/kg | 930        | JN       | 1.0             | YES        | NV               |
| 1,2-Binaphthalene                  | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthreneone     | TIC          | 530               | JN              | ug/kg | 530        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| Benzo[e]pyrene                     | TIC          | 1800              | JN              | ug/kg | 1800       | JN       | 1.0             | YES        | NV               |
| Picene                             | TIC          | 450               | JN              | ug/kg | 450        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene    | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 4-Methylnaphtho[1,2-b]thiophene    | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-        | TIC          | 500               | JN              | ug/kg | 500        | JN       | 1.0             | YES        | NV               |
| 2,9-Dimethyl-2,3,4,5,6,7-hexahydro | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Dibenzothiophene                   | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                   | TIC          | 390               | JN              | ug/kg | 390        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |
| Naphthalene, 1-methyl-             | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 1200              | JN              | ug/kg | 1200       | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 970               | J               | ug/kg | 970        | J        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 730               | JN              | ug/kg | 730        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B67

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-136

pH:

Sample Date: 11/19/2020

Sample Time: 09:35:00

% Moisture:

% Solids: 70.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B67        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-136 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                    | % Solids: 70.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.99              | J               | ug/kg | 0.99       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.37              | J               | ug/kg | 0.37       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.35              | J               | ug/kg | 0.35       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B67        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-136 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                       | % Solids: 70.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 95                | UJ              | ug/kg | 95         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B67        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-136 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                              | % Solids: 70.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 13                | J               | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.2               |                 | ug/kg | 8.2        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B77

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-146

pH:

Sample Date: 11/19/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 79.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B77        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-146 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                    | % Solids: 79.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B77        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-146 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                       | % Solids: 79.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | UJ              | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 570               |                 | ug/kg | 570        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 750               |                 | ug/kg | 750        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 540               |                 | ug/kg | 540        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene, 2-methyl-        | TIC          | 95                | JN              | ug/kg | 95         | JN       | 1.0             | YES        | NV               |
| unknown21.50                   | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione           | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 86                | JN              | ug/kg | 86         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B77        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-146 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                              | % Solids: 79.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.8               |                 | ug/kg | 4.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 570               | J               | ug/kg | 570        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 710               | J               | ug/kg | 710        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 550               | J               | ug/kg | 550        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 99                |                 | ug/kg | 99         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B88

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-157

pH:

Sample Date: 11/19/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 79.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B88        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-157 | pH:                | Sample Date: 11/19/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                    | % Solids: 79.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.31              | J               | ug/kg | 0.31       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B88        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-157 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                       | % Solids: 79.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | UJ              | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 63                | J               | ug/kg | 63         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 44                | J               | ug/kg | 44         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B88        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-157 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                              | % Solids: 79.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 77                |                 | ug/kg | 77         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 96                |                 | ug/kg | 96         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 79                |                 | ug/kg | 79         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B91

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-160

pH:

Sample Date: 11/19/2020

Sample Time: 11:55:00

% Moisture:

% Solids: 69.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B91        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-160 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                    | % Solids: 69.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B91        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-160 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                       | % Solids: 69.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | UJ              | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B91        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-160 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                              | % Solids: 69.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 68                |                 | ug/kg | 68         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.1               |                 | ug/kg | 7.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0B92

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-161

pH:

Sample Date: 11/19/2020

Sample Time: 10:50:00

% Moisture:

% Solids: 78.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 17                | J               | ug/kg | 17         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B92        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-161 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                    | % Solids: 78.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B92        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-161 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                       | % Solids: 78.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | UJ              | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B92        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-161 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                              | % Solids: 78.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 8.1               |                 | ug/kg | 8.1        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 96                |                 | ug/kg | 96         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 99                |                 | ug/kg | 99         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 95                |                 | ug/kg | 95         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BB9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-132

pH:

Sample Date: 11/18/2020

Sample Time: 11:40:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                    | % Solids: 78.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                       | % Solids: 78.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                              | % Solids: 78.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-133

pH:

Sample Date: 11/18/2020

Sample Time: 12:15:00

% Moisture:

% Solids: 79.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-133 | pH:                | Sample Date: 11/18/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                    | % Solids: 79.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-133 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                       | % Solids: 79.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | UJ              | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 960               | J               | ug/kg | 960        | J        | 1.0             | YES        | NV               |
| 9-Octadecenamide, (Z)-     | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-133 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                              | % Solids: 79.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-137

pH:

Sample Date: 11/18/2020

Sample Time: 13:10:00

% Moisture:

% Solids: 80.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                    | % Solids: 80.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                       | % Solids: 80.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | UJ              | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Heptadecanol-1           | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                              | % Solids: 80.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-141

pH:

Sample Date: 11/18/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 81.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                    | % Solids: 81.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                       | % Solids: 81.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | UJ              | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | R               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | R               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                              | % Solids: 81.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC4MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 81.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 180               |                 | ug/kg | 180        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC4MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                    | % Solids: 81.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC4MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 81.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 180               |                 | ug/kg | 180        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC4MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:             |                    | % Solids: 81.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-146

pH:

Sample Date: 11/19/2020

Sample Time: 10:20:00

% Moisture:

% Solids: 80.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                    | % Solids: 80.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                       | % Solids: 80.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                              | % Solids: 80.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BC9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-157

pH:

Sample Date: 11/19/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 81.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                    | % Solids: 81.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                       | % Solids: 81.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                              | % Solids: 81.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.92              | J               | ug/kg | 0.92       | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.98              | J               | ug/kg | 0.98       | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BH1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-138

pH:

Sample Date: 11/18/2020

Sample Time: 13:35:00

% Moisture:

% Solids: 77.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                    | % Solids: 77.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.44              | J               | ug/kg | 0.44       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.25              | J               | ug/kg | 0.25       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.9               | J               | ug/kg | 2.9        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.2               |                 | ug/kg | 3.2        |          | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                   | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                       | % Solids: 77.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | UJ              | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Heptafluorobutyric acid, n-octadec | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                          | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                              | % Solids: 77.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

Sample Number: C0BH7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-146-01

pH:

Sample Date: 11/19/2020

Sample Time: 08:00:00

% Moisture:

% Solids: 83.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BH7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                    | % Solids: 83.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BH7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                       | % Solids: 83.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | UJ              | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | UJ              | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name                 | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                 | Target       | 390               | UJ              | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine        | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate         | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| N1,N4-Diacetyl sulphaniamide | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Myristin, 2,3-diaceto-1-     | TIC          | 84                | JN              | ug/kg | 84         | JN       | 1.0             | YES        | NV               |
| Trifluoroacetoxy hexadecane  | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| unknown-01                   | TIC          | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | NV               |
| Total Alkanes                | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BH7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                              | % Solids: 83.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | UJ              | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK87 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS87 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 3.4               |                 | ug/kg | 3.4        |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Spike        | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK91 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK92 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.3               | UJ              | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B06

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/5/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink, appearing to read "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B23 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220038





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 30, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167, COB23

### **Overview**

This data package consisted of one (1) trip blank and ten (10) soil samples that were analyzed for volatile target analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 10, 2020.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Blank contamination required qualification of sample results.



**Minor Problem**

Method blanks VBLK10/VBLK11/VBLK84/VBLK99 and storage blank VBLK02 reported concentrations of methylene chloride less than or equal to the CRQL. Method blanks VBLK10/VBLK11 reported concentrations of acetone less than the CRQL. Detected concentrations of these analytes in associated samples that were less than the CRQL have been reported at the CRQL and qualified "U". Detected concentrations that were greater than the CRQL but less than two times (<2X) the blank concentration have been qualified "U" as reported. The detected concentration of methylene chloride in sample C0B23, which was greater than two times (>2X) the blank concentration may be estimated high and has been qualified "J+".

**Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Method blank VBLK86 and storage blank VHBLK01 reported concentrations of 2-hexanone less than the CRQL. The detected concentration of 2-hexanone in associated trip blank C0BH6 was less than the CRQL and has been reported at the CRQL and qualified "U".

Trip blank C0BH6 reported a concentration of acetone less than the CRQL. The detected concentrations of acetone in samples that were less than the CRQL have been reported at the CRQL and qualified "U". The detected concentration of acetone in sample C0BD0 that was greater than the CRQL, but less than two times (<2X) the blank concentration has been qualified "U" as reported.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on all field samples. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

## **Glossary of Organic Data Qualifier Codes**

---

|                       |  |
|-----------------------|--|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result. |
|-----------------------|--|

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|    |   |
|----|---|
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                          |
| U  | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |

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|                       |  |
|-----------------------|--|
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers. |
|-----------------------|--|

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|   |   |
|---|---|
| N | The analyte has been “tentatively identified” or “presumptively” as present.  |
| B | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

Sample Number: C0B23

Method: Volatile Organics

Matrix: Soil

MA Number:

Sample Location: NLR-SS-160

pH:

Sample Date: 11/19/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 79.9

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | J+              | ug/kg | 6.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B24        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-161 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                           | % Solids: 76.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 5.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.1               |                 | ug/kg | 9.1        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B25        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                           | % Solids: 81.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 5.5        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B26        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                           | % Solids: 77.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 4.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B27        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 73.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 5.8        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.8               |                 | ug/kg | 8.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B29        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                           | % Solids: 80.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 4.2        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                           | % Solids: 80.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | B        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.6               | U               | ug/kg | 6.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                           | % Solids: 83.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 9.4        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.9               | U               | ug/kg | 7.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BD2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                           | % Solids: 79.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 6.6        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.9               | U               | ug/kg | 9.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BE5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                           | % Solids: 81.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 4.2        | JB       | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | U               | ug/kg | 6.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BH6       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-07 | pH: 1.0                   | Sample Date: 11/19/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.1               | J               | ug/L  | 9.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 6.4        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK10 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.4               | J               | ug/kg | 5.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK11 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.7               | J               | ug/kg | 4.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK84 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK86 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.2               | J               | ug/L  | 5.2        | J        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK99 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.1               | J               | ug/L  | 5.1        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B23

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.8               | J               | ug/kg | 2.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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**Project Name: NORWOOD LANDFILL Project**

**GroupID: 49167/EPW14030/C0B23**

**Lab Name: Chemtech Consulting Group**

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/12/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric" followed by a stylized set of initials.

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B25 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

**(b) (4)**

TO: #0002 TDF: #1220041





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 10, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 C0B25

### **Overview**

This data package consisted of seventeen (17) soil samples analyzed for semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes and one (1) soil sample analyzed for pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 10, 2020.

### **Summary**

A significant data quality outlier regarding Deuterated Monitoring Compound (DMC) was identified that resulted in rejection of results in a semivolatile sample. Other DMC recoveries in semivolatile fraction and dual column precision in the pesticide and aroclor fraction required qualification of results.

### **Major Problem**

The recovery of DMC 4-Nitrophenol-<sub>d4</sub> was <10% in semivolatile sample C0B95. No positive results were reported for analytes associated with this DMC. Quantitation limits for analytes associated with this DMC in this sample have been rejected and qualified "R".

**Minor Problem**

The recovery of DMC 1,4-Dioxane-<sub>d8</sub> was outside the lower control limit in semivolatile sample COB97. No positive result was reported for 1,4-dioxane, the analyte associated with this DMC. Quantitation limit for 1,4-dioxane in this sample has been qualified "UJ".

**Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J".

Pesticide and Aroclor results with %D >25% between the two analytical columns have been qualified "J".

Laboratory blanks were free of contamination in all fractions.

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for samples listed below. These samples were reanalyzed at dilutions listed in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample       | DF  | Affected Analytes  |
|----------|--------------|-----|--|
| PAH      | COB26, COB94 | 10X | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COB27        | 5X  | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COB93        | 2X  | Fluoranthene, Pyrene   |
|          | COB95        | 5X  | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|          | COBD0        | 4X  | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide and Aroclor samples COBE4 reported acceptable results.

DMC recoveries were outside the lower control limit in the diluted analysis of SIM sample COB27. DMCs were diluted out and no data were qualified based on this finding.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.



Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: ABLK21

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS21 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B25

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-162

pH:

Sample Date: 11/19/2020

Sample Time: 11:15:00

% Moisture:

% Solids: 81.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B25        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                    | % Solids: 81.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B25        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                       | % Solids: 81.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B25        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                              | % Solids: 81.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 9.3               |                 | ug/kg | 9.3        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B26

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-163

pH:

Sample Date: 11/19/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 77.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B26        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                    | % Solids: 77.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.80              | J               | ug/kg | 0.80       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.51              | J               | ug/kg | 0.51       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.90              | J               | ug/kg | 0.90       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.25              | J               | ug/kg | 0.25       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B26        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                       | % Solids: 77.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 380               | J               | ug/kg | 380        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B26        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                              | % Solids: 77.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 380               |                 | ug/kg | 380        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 340               |                 | ug/kg | 340        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 270               |                 | ug/kg | 270        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 91                |                 | ug/kg | 91         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 98                |                 | ug/kg | 98         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 97                |                 | ug/kg | 97         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B27

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-164

pH:

Sample Date: 11/19/2020

Sample Time: 10:20:00

% Moisture:

% Solids: 73.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B27        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                    | % Solids: 73.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.46              | J               | ug/kg | 0.46       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.41              | J               | ug/kg | 0.41       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B27        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                       | % Solids: 73.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B27        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                              | % Solids: 73.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 62                |                 | ug/kg | 62         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 90                |                 | ug/kg | 90         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 70                |                 | ug/kg | 70         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B29

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-166

pH:

Sample Date: 11/19/2020

Sample Time: 09:00:00

% Moisture:

% Solids: 80.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B29        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                    | % Solids: 80.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B29        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                       | % Solids: 80.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B29        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                              | % Solids: 80.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.95              | J               | ug/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 9.7               |                 | ug/kg | 9.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               |                 | ug/kg | 4.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B93

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-162

pH:

Sample Date: 11/19/2020

Sample Time: 11:20:00

% Moisture:

% Solids: 76.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 18                | J               | ug/kg | 18         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 30                | J               | ug/kg | 30         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B93        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-162 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                    | % Solids: 76.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.55              | J               | ug/kg | 0.55       | J        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.26              | J               | ug/kg | 0.26       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B93        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-162 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                       | % Solids: 76.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name                      | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                      | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                            | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene              | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bromoacetic acid, hexadecyl ester | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                     | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B93        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-162 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                              | % Solids: 76.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 93                |                 | ug/kg | 93         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 88                |                 | ug/kg | 88         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B94

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-163

pH:

Sample Date: 11/19/2020

Sample Time: 14:45:00

% Moisture:

% Solids: 71.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B94        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-163 | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                    | % Solids: 71.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.65              | J               | ug/kg | 0.65       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.91              | J               | ug/kg | 0.91       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.58              | J               | ug/kg | 0.58       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.40              | J               | ug/kg | 0.40       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B94        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-163 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                       | % Solids: 71.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 370               | J               | ug/kg | 370        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Methacrylamide             | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B94        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-163 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                              | % Solids: 71.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 9.5               |                 | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 170               |                 | ug/kg | 170        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 430               |                 | ug/kg | 430        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 450               |                 | ug/kg | 450        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 260               |                 | ug/kg | 260        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 260               |                 | ug/kg | 260        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 350               |                 | ug/kg | 350        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 240               |                 | ug/kg | 240        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 130               |                 | ug/kg | 130        | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 120               |                 | ug/kg | 120        | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B95

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-164

pH:

Sample Date: 11/19/2020

Sample Time: 10:25:00

% Moisture:

% Solids: 78.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 34                | J               | ug/kg | 34         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B95        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-164 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                    | % Solids: 78.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.31              | J               | ug/kg | 0.31       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.5               | J               | ug/kg | 2.5        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.74              | J               | ug/kg | 0.74       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B95        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-164 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                       | % Solids: 78.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | R               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | R               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | R               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | R               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | R               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 98                | J               | ug/kg | 98         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B95        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-164 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                              | % Solids: 78.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0B97

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-166

pH:

Sample Date: 11/19/2020

Sample Time: 09:05:00

% Moisture:

% Solids: 80.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 8.8               | J               | ug/kg | 8.8        | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B97        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-166 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                    | % Solids: 80.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B97        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-166 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                       | % Solids: 80.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | UJ              | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B97        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-166 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                              | % Solids: 80.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BB6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-129

pH:

Sample Date: 11/19/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 85.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 38                | U               | ug/kg | 38         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                    | % Solids: 85.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                       | % Solids: 85.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 78                | U               | ug/kg | 78         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 380               | U               | ug/kg | 380        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Heptafluorobutyric acid, pentadecy | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 380               | J               | ug/kg | 380        | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                              | % Solids: 85.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.8               | U               | ug/kg | 7.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.8               | U               | ug/kg | 3.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BC7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-147

pH:

Sample Date: 11/19/2020

Sample Time: 12:40:00

% Moisture:

% Solids: 84.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC7        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                    | % Solids: 84.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC7        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                       | % Solids: 84.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Tetracosanol-1           | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC7        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                              | % Solids: 84.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BD0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-163

pH:

Sample Date: 11/19/2020

Sample Time: 14:40:00

% Moisture:

% Solids: 80.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                    | % Solids: 80.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                       | % Solids: 80.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 83                | U               | ug/kg | 83         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 170               | N               | ug/kg | 170        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                              | % Solids: 80.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.3               | U               | ug/kg | 8.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 130               |                 | ug/kg | 130        | D        | 4.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 140               |                 | ug/kg | 140        | D        | 4.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 81                |                 | ug/kg | 81         | D        | 4.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BD1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-166

pH:

Sample Date: 11/19/2020

Sample Time: 09:10:00

% Moisture:

% Solids: 83.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                    | % Solids: 83.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                       | % Solids: 83.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 270               | J               | ug/kg | 270        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 410               |                 | ug/kg | 410        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 340               | N               | ug/kg | 340        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                              | % Solids: 83.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B25

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BD2        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:              | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                  | % Solids: 79.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                    | % Solids: 79.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                       | % Solids: 79.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 250               | J               | ug/kg | 250        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 280               | N               | ug/kg | 280        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                              | % Solids: 79.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BD9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-129

pH:

Sample Date: 11/19/2020

Sample Time: 08:45:00

% Moisture:

% Solids: 89.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 37                | U               | ug/kg | 37         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BD9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                    | % Solids: 89.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | U               | ug/kg | 1.9        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BD9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                       | % Solids: 89.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 74                | U               | ug/kg | 74         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 370               | U               | ug/kg | 370        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 190               | U               | ug/kg | 190        | U        | 1.0             | YES        | S4VEM            |
| unknown-02                 | TIC          | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 300               | N               | ug/kg | 300        | N        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| unknown-03                 | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| unknown-04                 | TIC          | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BD9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                              | % Solids: 89.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.4               | U               | ug/kg | 7.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.7               | U               | ug/kg | 3.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BE2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-146

pH:

Sample Date: 11/19/2020

Sample Time: 10:35:00

% Moisture:

% Solids: 82.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                    | % Solids: 82.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                       | % Solids: 82.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | U               | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 280               | J               | ug/kg | 280        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Eicosanoic acid, 2,3-bis(acetyloxy) | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          | 330               | N               | ug/kg | 330        | N        | 1.0             | YES        | NV               |
| unknown-01                          | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                              | % Solids: 82.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.1               | U               | ug/kg | 8.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BE3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-147

pH:

Sample Date: 11/19/2020

Sample Time: 12:55:00

% Moisture:

% Solids: 92.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 36                | U               | ug/kg | 36         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                    | % Solids: 92.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 18                | U               | ug/kg | 18         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | U               | ug/kg | 1.8        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                       | % Solids: 92.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 73                | U               | ug/kg | 73         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 360               | U               | ug/kg | 360        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 180               | U               | ug/kg | 180        | U        | 1.0             | YES        | S4VEM            |
| Dodecanoic acid, 2-hydroxy-1-(hydr | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 340               | J               | ug/kg | 340        | J        | 1.0             | YES        | NV               |
| n-Tetracosanol-1                   | TIC          | 290               | JN              | ug/kg | 290        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                              | % Solids: 92.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.6               | U               | ug/kg | 3.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B25

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:              | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                  | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                    | % Solids: 84.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BE4MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 84.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE4MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:            |                    | % Solids: 84.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                         |                  |                         |                       |
|-------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BE4MSD | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:              | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:             |                  | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE4MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:             |                    | % Solids: 84.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

Sample Number: C0BE5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-163

pH:

Sample Date: 11/19/2020

Sample Time: 15:05:00

% Moisture:

% Solids: 81.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                    | % Solids: 81.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                       | % Solids: 81.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 320               | J               | ug/kg | 320        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 220               | N               | ug/kg | 220        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                              | % Solids: 81.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.98              | J               | ug/kg | 0.98       | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 5.6               |                 | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 5.4               |                 | ug/kg | 5.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.82              | J               | ug/kg | 0.82       | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK88 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS88 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.2               | JP              | ug/kg | 1.2        | JP       | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK22 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK23 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B25

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B31 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220030





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 4, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COB31

### Overview

This data package consisted of one (1) rinsate blank and ten (10) soil samples analyzed for volatile target analytes, and one (1) rinsate blank and nineteen (19) soil analyzed for Aroclors, pesticide, semivolatile target analytes and Polynuclear Aromatic Hydrocarbon (PAH) by Selective Ion Monitoring (SIM) analysis. This sample set included two (2) field duplicate samples.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 9, 2020.

Trip blank COBG4 (from SDG COAY0) was associated with samples in this SDG and used in the evaluation of this data.

### Summary

Dual column precision outliers were identified that resulted in the rejection as well as the estimation of sample results. Less significant data quality outliers were identified resulting in estimation of sample results including but not limited to Deuterated Monitoring Compound (DMC) recoveries, surrogate recoveries and calibration precision.

**Major Problem**

The following analytes had Percent Difference (%D) > 200% between the dual column analyses. The large %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed below have been rejected and qualified "R".

| Fraction  | Affected Samples    | Affected Analytes              |
|-----------|---------------------|--------------------------------|
| Pesticide | Reanalysis of COB48 | cis-Chlordane, trans-Chlordane |
|           | COBG7               | cis-Chlordane                  |

**Minor Problems**

Percent recoveries for the following DMCs were outside the lower control limits in samples listed below. Analytes associated with these DMCs were non-detect in these samples. Non-detects are estimated and have been qualified "UJ".

| Fraction | DMCs                   | Affected Samples    |
|----------|------------------------|---------------------|
| VOA      | 1,2-Dichloroethane-d4  | COBA0               |
|          | 1,2-Dichloropropane-d6 |                     |
|          | 1,2-Dichlorobenzene-d4 |                     |
| SVOA     | 1,4-Dioxane-d8         | COB31, COB48, COB49 |

Percent recoveries for the following surrogate were outside the lower control limit for the samples listed below. Detected concentrations for target analytes associated with these DMCs are estimated and have been qualified "J". Non-detects are estimated and have been qualified "UJ".

| Fraction  | Surrogate          | Affected Samples                                       |
|-----------|--------------------|--|
| Pesticide | Decachlorobiphenyl | COB31, COB42, COB43, COB49, COB54, COBA5, COBG5, COBG7 |
| ARO       |                    | COB48  |

The laboratory reported the following target analytes failed the precision criteria (%D) in the continuing calibration verification (CCV) standard listed below. Detected concentrations for these analytes in the associated field samples are estimated and have been qualified "J". Non-detects are estimated and have been qualified "UJ".

| Fraction | Standard IDs                                  | Affected analytes                                      | Associated Samples  |
|----------|---|--|---|
| SVOA     | SSTD02066                                     | Bis(2-Chloroethyl)ether<br>2,2-oxybis(1-Chloropropane) | COB31, COB38, COB39, COB42,<br>COB49, COBA0, COBG7  |
| PAH      | SSTD0.416, SSTD0.417,<br>SSTD0.418, SSTD0.419 | Benzo(a)anthracene                                     | COB39, COB43, COB48, COB54,<br>COBA0, COBA2, COBA3, COBA5,<br>COBA6, COBA8, COBA9, COBB2,<br>COBG5, COBG6, COBG7<br>Diluted analysis of samples COB31,<br>COB38, COB42, COB49 |
| PEST     | INDA327, INDA327                              | 4,4-DDT, Methoxychlor                                  | Reanalysis of sample COB48  |

The following analytes exceeded calibration range in the diluted analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COB31  | 5x | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene<br>Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COB49  | 5x | Fluoranthene, Pyrene   |

### **Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and <200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

All other reported results base on dual column precision were less than the CRQL.

In the volatile fraction, Method Blank (MB) VBLK06 reported methylene chloride less than the CRQL. MB VBLK08 reported methylene chloride and carbon disulfide less than the CRQL. MB VBLK86 reported 2-hexanone less than the CRQL. Storage blank (SB) VHBLK01 reported methylene chloride less than the CRQL. SB VHBLK02 reported 2-hexanone less than the CRQL. Detected concentrations of 2-hexanone and methylene chloride less than the CRQL in the associated field samples, have been reported at the CRQL and qualified "U". Detected concentrations of methylene chloride in the associated field samples greater than 2x than the blank results and were not qualified.

Volatile trip blank COBG4 was free from contamination.

In the pest/Aroclors/semivolatile/SIM fractions, MBs were free from contaminations.

In the volatile/pest/Aroclor/SIM fractions, Rinsate Blank (RB) COBG3 was free from contamination.

In the semivolatile fraction, RB COBG3 reported dimethylphthalate less than the CRQL. Detected concentrations of dimethylphthalate less than the CRQL in the associated field samples, have been reported at the CRQL and qualified "U".

Percent recoveries for Aroclors/pesticide target analytes in Laboratory Control Sample (LCS) analyses were within control limits on both columns. No data were qualified based on LCS precision or accuracy.

Percent recoveries and Relative Percent Differences (RPDs) for pesticide target analytes in Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis of sample COB48 were within control limits on both columns. No data were qualified based on this finding.



The initial analysis of pesticide sample COB48 reported low surrogate recoveries and was associated with a failing standard. This sample was reanalyzed with surrogate recoveries within control limits. The reanalyzed sample was reported. This sample was qualified as reported in "Minor Problems".

Percent recoveries and RPDs for Aroclors in the MS/MSD analysis of sample COB48 were within control limits on both columns except ARO1260 on column ZB-MR1 was outside the upper control limits. The parent sample was non-detect for Aroclors. No data were qualified based on this finding.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COB31  | 5x | Phenanthrene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene   |
|          | COB38  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COB42  | 5x | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene               |
|          | COB48  | 2x | Fluoranthene   |
|          | COB49  | 5x | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                       |

Surrogate recoveries requirements do not apply to samples that have been diluted.

Samples COBG5/COBG6 are identified as a field duplicate samples on the chain of custody records. Sufficient information was not provided to identify the duplicate pairs to these samples. Comparison of results could not be made.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

## Glossary of Organic Data Qualifier Codes

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|                       |  |
|-----------------------|--|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result. |
|-----------------------|--|

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|    |   |
|----|---|
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                           |
| U  | The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.  |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |

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|                       |  |
|-----------------------|--|
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers. |
|-----------------------|--|

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|   |   |
|---|---|
| N | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: ABLK04

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ABLK24 | Method: Aroclors | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6            | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 0   |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: ALCS04

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: ALCS24

Method: Aroclors

Matrix: Water

MA Number:

Sample Location:

pH: 6

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 1.1               |                 | ug/L  | 1.1        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 0.99              | J               | ug/L  | 0.99       | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B31

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-100

pH:

Sample Date: 11/17/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 66.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B31        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-100 | pH:                | Sample Date: 11/17/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                    | % Solids: 66.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.6               | UJ              | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.54              | J               | ug/kg | 0.54       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.93              | J               | ug/kg | 0.93       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 26                | UJ              | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.0               | UJ              | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.94              | J               | ug/kg | 0.94       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.95              | J               | ug/kg | 0.95       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 260               | UJ              | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B31        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-100 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                       | % Solids: 66.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 100               | UJ              | ug/kg | 100        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 490               | UJ              | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 490               | UJ              | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               | U               | ug/kg | 82         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 400               |                 | ug/kg | 400        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 490               | U               | ug/kg | 490        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 560               |                 | ug/kg | 560        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 770               |                 | ug/kg | 770        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 740               |                 | ug/kg | 740        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| unknown-02                         | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrene        | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Thiophene-3-carboxaldehyde, 5-chlo | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,3-d]thiophene    | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B31        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-100 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                              | % Solids: 66.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.5               |                 | ug/kg | 6.5        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | J               | ug/kg | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.5               | J               | ug/kg | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 280               |                 | ug/kg | 280        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 64                |                 | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 850               | J               | ug/kg | 850        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 860               | J               | ug/kg | 860        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 380               |                 | ug/kg | 380        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 710               | J               | ug/kg | 710        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 490               | J               | ug/kg | 490        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B38

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-107

pH:

Sample Date: 11/17/2020

Sample Time: 09:25:00

% Moisture:

% Solids: 74.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B38        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-107 | pH:                | Sample Date: 11/17/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                    | % Solids: 74.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.80              | J               | ug/kg | 0.80       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.43              | J               | ug/kg | 0.43       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.91              | J               | ug/kg | 0.91       | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.43              | J               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.54              | J               | ug/kg | 0.54       | J        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B38        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-107 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                       | % Solids: 74.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               | U               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 430               | J               | ug/kg | 430        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 890               | N               | ug/kg | 890        | N        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B38        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-107 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                              | % Solids: 74.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.95              | J               | ug/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 330               |                 | ug/kg | 330        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 180               | J               | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 85                |                 | ug/kg | 85         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B39

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-108

pH:

Sample Date: 11/17/2020

Sample Time: 10:15:00

% Moisture:

% Solids: 72.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B39        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-108 | pH:                | Sample Date: 11/17/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                    | % Solids: 72.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B39        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-108 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                       | % Solids: 72.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | UJ              | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | UJ              | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               | U               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 99                | JN              | ug/kg | 99         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B39        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-108 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                              | % Solids: 72.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 22                | J               | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B42

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-111

pH:

Sample Date: 11/17/2020

Sample Time: 11:10:00

% Moisture:

% Solids: 75.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B42        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-111 | pH:                | Sample Date: 11/17/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                    | % Solids: 75.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.40              | J               | ug/kg | 0.40       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.6               | J               | ug/kg | 4.6        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.3               | J               | ug/kg | 3.3        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B42        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-111 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                       | % Solids: 75.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               | U               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 260               | J               | ug/kg | 260        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B42        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-111 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                              | % Solids: 75.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 170               | J               | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 69                |                 | ug/kg | 69         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 99                |                 | ug/kg | 99         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B43

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-112

pH:

Sample Date: 11/17/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 73.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B43        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-112 | pH:                | Sample Date: 11/17/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                    | % Solids: 73.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.46              | J               | ug/kg | 0.46       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.56              | J               | ug/kg | 0.56       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.30              | J               | ug/kg | 0.30       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B43        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-112 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                       | % Solids: 73.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               | U               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Heptacosyl acetate         | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B43        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-112 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                              | % Solids: 73.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 16                | J               | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 9.3               |                 | ug/kg | 9.3        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B48

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-117

pH:

Sample Date: 11/17/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 73.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | UJ              | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B48        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117 | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                    | % Solids: 73.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.83              | J               | ug/kg | 0.83       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.89              | J               | ug/kg | 0.89       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.47              | J               | ug/kg | 0.47       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 14                | R               | ug/kg | 14         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 4.0               | R               | ug/kg | 4.0        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B48        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                       | % Solids: 73.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | UJ              | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               | U               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B48        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                              | % Solids: 73.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 72                |                 | ug/kg | 72         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 70                |                 | ug/kg | 70         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 39                | J               | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B48MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 73.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 180               |                 | ug/kg | 180        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B48MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:            |                    | % Solids: 73.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Spike        | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Spike        | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.98              | J               | ug/kg | 0.98       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Spike        | 24                | J               | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 13                | J               | ug/kg | 13         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | J               | ug/kg | 1.9        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0B48MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 73.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 160               |                 | ug/kg | 160        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Spike        | 160               |                 | ug/kg | 160        | P        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B48MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:             |                    | % Solids: 73.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Spike        | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Spike        | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Spike        | 24                | J               | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 13                | J               | ug/kg | 13         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B49        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:              | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                  | % Solids: 70.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B49        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:                | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                    | % Solids: 70.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.43              | J               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.50              | J               | ug/kg | 0.50       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B49        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                       | % Solids: 70.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | UJ              | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | UJ              | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | UJ              | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               | U               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                 | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                 | Target       | 660               |                 | ug/kg | 660        |          | 1.0             | YES        | S4VEM            |
| Pyrene                       | Target       | 620               |                 | ug/kg | 620        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine        | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene           | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Chrysene                     | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate   | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate         | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene         | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene               | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene       | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene       | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                   | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Total Alkanes                | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 6H-Cyclobuta[jk]phenanthrene | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| Anthracene, 1-methyl-        | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B49        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                              | % Solids: 70.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 6.4               |                 | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 70                |                 | ug/kg | 70         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 570               | J               | ug/kg | 570        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 550               | J               | ug/kg | 550        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 340               | J               | ug/kg | 340        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B54        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-123 | pH:              | Sample Date: 11/17/2020 | Sample Time: 14:35:00 |
| % Moisture:                 |                  | % Solids: 75.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B54        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-123 | pH:                | Sample Date: 11/17/2020 | Sample Time: 14:35:00 |
| % Moisture:                 |                    | % Solids: 75.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.68              | J               | ug/kg | 0.68       | J        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 16                | J               | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B54        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-123 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 14:35:00 |
| % Moisture:                 |                       | % Solids: 75.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               | U               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Behenic alcohol            | TIC          | 89                | JN              | ug/kg | 89         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B54        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-123 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 14:35:00 |
| % Moisture:                 |                              | % Solids: 75.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 6.7               | J               | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 9.9               |                 | ug/kg | 9.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 6.3               |                 | ug/kg | 6.3        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BA0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-100

pH:

Sample Date: 11/17/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 75.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                    | % Solids: 75.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                       | % Solids: 75.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 300               | J               | ug/kg | 300        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               | U               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 180               | N               | ug/kg | 180        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                              | % Solids: 75.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                           | % Solids: 75.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.4               | UJ              | ug/kg | 3.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | UJ              | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BA2        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:              | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                  | % Solids: 75.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                    | % Solids: 75.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                       | % Solids: 75.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               | U               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caryophyllene              | TIC          | 760               | JN              | ug/kg | 760        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Cinnamyl cinnamate         | TIC          | 650               | JN              | ug/kg | 650        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                              | % Solids: 75.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 34                | J               | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 75.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.2               |                 | ug/kg | 6.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BA3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-108

pH:

Sample Date: 11/17/2020

Sample Time: 10:20:00

% Moisture:

% Solids: 83.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                    | % Solids: 83.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                       | % Solids: 83.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 300               | J               | ug/kg | 300        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | U               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 150               | N               | ug/kg | 150        | N        | 1.0             | YES        | NV               |
| Caryophyllene              | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                              | % Solids: 83.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.84              | J               | ug/kg | 0.84       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 7.7               |                 | ug/kg | 7.7        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 9.4               |                 | ug/kg | 9.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 5.6               | J               | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 5.6               |                 | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 83.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.5               | J               | ug/kg | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.2               |                 | ug/kg | 5.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.9               | U               | ug/kg | 9.9        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B31

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BA5        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:              | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                  | % Solids: 79.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                    | % Solids: 79.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | UJ              | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.38              | J               | ug/kg | 0.38       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.43              | J               | ug/kg | 0.43       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.3               | J               | ug/kg | 5.3        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.9               | J               | ug/kg | 3.9        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                       | % Solids: 79.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               | U               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 220               | N               | ug/kg | 220        | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                              | % Solids: 79.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.84              | J               | ug/kg | 0.84       | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                           | % Solids: 79.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.5               | J               | ug/kg | 5.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.8               |                 | ug/kg | 5.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.8               | U               | ug/kg | 5.8        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BA6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-112

pH:

Sample Date: 11/17/2020

Sample Time: 11:55:00

% Moisture:

% Solids: 79.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                    | % Solids: 79.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                       | % Solids: 79.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               | U               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Nonadecanol-1            | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                              | % Solids: 79.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | UJ              | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                           | % Solids: 79.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.5               |                 | ug/kg | 6.5        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BA8        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:              | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                  | % Solids: 83.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                    | % Solids: 83.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                       | % Solids: 83.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 250               | J               | ug/kg | 250        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| n-Tetracosanol-1           | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                              | % Solids: 83.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                           | % Solids: 83.2          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.6               |                 | ug/kg | 6.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BA9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-118

pH:

Sample Date: 11/17/2020

Sample Time: 13:55:00

% Moisture:

% Solids: 81.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BA9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-118 | pH:                | Sample Date: 11/17/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                    | % Solids: 81.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.32              | J               | ug/kg | 0.32       | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BA9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-118 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                       | % Solids: 81.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               | U               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1-Heneicosanol                     | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BA9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-118 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                              | % Solids: 81.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.85              | J               | ug/kg | 0.85       | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.90              | J               | ug/kg | 0.90       | J        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.98              | J               | ug/kg | 0.98       | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.0               | UJ              | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BA9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-118 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                           | % Solids: 81.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.4               | J               | ug/kg | 9.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.6               |                 | ug/kg | 6.6        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BB2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-123

pH:

Sample Date: 11/17/2020

Sample Time: 14:40:00

% Moisture:

% Solids: 84.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BB2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-123 | pH:                | Sample Date: 11/17/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                    | % Solids: 84.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BB2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-123 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                       | % Solids: 84.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 100               | N               | ug/kg | 100        | N        | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 290               | J               | ug/kg | 290        | J        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BB2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-123 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                              | % Solids: 84.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | UJ              | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BB2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-123 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                           | % Solids: 84.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               |                 | ug/kg | 6.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BG3

Method: Aroclors

Matrix: Water

MA Number:

Sample Location: NLR-RB-SB-01

pH: 5

Sample Date: 11/17/2020

Sample Time: 15:30:00

% Moisture:

% Solids: 0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                               |                    |                         |                       |
|-------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG3          | Method: Pesticides | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-01 | pH: 5              | Sample Date: 11/17/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                    | % Solids: 0             |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                               |                       |                         |                       |
|-------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG3          | Method: Semivolatiles | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-01 | pH: 5                 | Sample Date: 11/17/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                       | % Solids: 0             |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 1.3               | J               | ug/L  | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 4.0               | N               | ug/L  | 4.0        | N        | 1.0             | YES        | NV               |
| 7,9-Di-tert-butyl-1-oxaspiro(4,5)d | TIC          | 3.4               | JN              | ug/L  | 3.4        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                               |                              |                         |                       |
|-------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG3          | Method: Semivolatiles by SIM | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-01 | pH: 5                        | Sample Date: 11/17/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                              | % Solids: 0             |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                               |                           |                         |                       |
|-------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG3          | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-01 | pH: 1.0                   | Sample Date: 11/17/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 7.4        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BG5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-117-01

pH:

Sample Date: 11/17/2020

Sample Time: 12:00:00

% Moisture:

% Solids: 70.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG5           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                    | % Solids: 70.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG5           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                       | % Solids: 70.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 95                | U               | ug/kg | 95         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               | U               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 250               | J               | ug/kg | 250        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 600               | JN              | ug/kg | 600        | JN       | 1.0             | YES        | NV               |
| E-15-Heptadecenal                  | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 2-cyclohexylethyl h | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 220               | N               | ug/kg | 220        | N        | 1.0             | YES        | NV               |
| Isophthalic acid, di(4-octyl) este | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 2-ethylbutyl nonyl  | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, decyl 2,2-dichloroe | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 2,7-dimethyloct-7-e | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG5           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                              | % Solids: 70.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.96              | J               | ug/kg | 0.96       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 14                | J               | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 8.1               |                 | ug/kg | 8.1        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.5               |                 | ug/kg | 8.5        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG5           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                           | % Solids: 70.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 11                |                 | ug/kg | 11         | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BG6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-117-01

pH:

Sample Date: 11/17/2020

Sample Time: 12:10:00

% Moisture:

% Solids: 85.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                    | % Solids: 85.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                       | % Solids: 85.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Supraene                       | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Heptadecyl heptafluorobutyrate | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                              | % Solids: 85.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | UJ              | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG6           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                           | % Solids: 85.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.0               |                 | ug/kg | 8.0        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 9.8               | U               | ug/kg | 9.8        | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 4.9               | U               | ug/kg | 4.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

Sample Number: C0BG7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-117-01

pH:

Sample Date: 11/17/2020

Sample Time: 12:05:00

% Moisture:

% Solids: 74.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117-01 | pH:                | Sample Date: 11/17/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                    | % Solids: 74.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.31              | J               | ug/kg | 0.31       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 6.1               | R               | ug/kg | 6.1        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117-01 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                       | % Solids: 74.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 65                | J               | ug/kg | 65         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117-01 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                              | % Solids: 74.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.89              | J               | ug/kg | 0.89       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 32                | J               | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK25 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK70 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS25 | Method: Pesticides | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6              | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 0   |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 0.047             | J               | ug/L  | 0.047      | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Spike        | 0.058             |                 | ug/L  | 0.058      |          | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 0.11              |                 | ug/L  | 0.11       |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Spike        | 0.075             | J               | ug/L  | 0.075      | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 0.50              | U               | ug/L  | 0.50       | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.050             | U               | ug/L  | 0.050      | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Spike        | 0.056             |                 | ug/L  | 0.056      |          | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS70 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Spike        | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Spike        | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK26 | Method: Semivolatiles | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                 | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 0   |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK27 | Method: Semivolatiles by SIM | Matrix: Water | MA Number:   |
| Sample Location:      | pH: 6                        | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 0   |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 0.10              | U               | ug/L  | 0.10       | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK71 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 330               | UJ              | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | UJ              | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK72 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK06 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK08 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 0.66              | J               | ug/kg | 0.66       | J        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK86 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.2               | J               | ug/L  | 5.2        | J        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 3.4               | J               | ug/kg | 3.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 5.8               | J               | ug/L  | 5.8        | JB       | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B31

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III

Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 12/29/2020

SUBJECT: Region III Data QA Review

FROM: Warren Fortune   
Region III ESAT RPO (3LS20)

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B36 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

**(b) (4)**

TO: #0002 TDF: #1220021





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 28, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 C0B36

### **Overview**

This data package consisted of two (2) trip blanks analyzed for volatile analytes, eight (8) soil samples analyzed for volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes and ten (10) soil samples including a field duplicate sample analyzed for semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 4, 2020. In addition, the reconciliation data dated December 18, 2020 were reviewed.

### **Summary**

Significant data quality outliers regarding dual column precision in pesticide fraction were identified that resulted in rejection of several analytes in this fraction. Calibration standards and Deuterated Monitoring Compound (DMC) in semivolatile fraction; surrogates in pesticide and Aroclor fractions and Matrix Spike/Matrix Spike Duplicate (MS/MSD) in pesticide fraction; and blanks in the volatile fraction required qualification.

**Major Problem**

The following analytes had results >CRQL with Percent Difference (%D) >200% in pesticide dual column analyses for samples listed. The significant %D between the two results may indicate interferences impacting the analytes. Reported results for these analytes in samples listed have been rejected and qualified "R".

| Fraction  | Affected Sample(s) | Affected Analyte(s)             |
|-----------|--------------------|---------------------------------|
| Pesticide | COB36              | Heptachlor epoxide              |
|           | COB51              | Aldrin, 4,4'-DDE, Endosulfan II |
|           | COB51DL            | Heptachlor epoxide              |
|           | COB53              | cis-Chlordane, trans-Chlordane  |
|           | COB55              | trans-Chlordane                 |
|           | COB65              | cis-Chlordane                   |

**Minor Problems**

The following analyte failed %D criteria in calibration standard listed below. No positive results were reported for this analyte. Quantitation limits for this analyte in samples associated with this calibration are estimated and have been qualified "UJ".

| Fraction     | Standard ID | Affected Analytes         | Associated Samples  |
|--------------|-------------|---------------------------|---|
| Semivolatile | SSTD02039   | Hexachlorocyclopentadiene | COAW9, COAZ8, COB03, COB07, COB36, COB58, COB65, COB66, COBF2, COBF3, COBF6 |

The recovery of DMC 1,4-Dioxane-<sub>d8</sub> was outside the lower control limit in semivolatile sample COB51. No positive result was reported for 1,4-dioxane, the analyte associated with this DMC. Quantitation limit for 1,4-dioxane in this sample has been qualified "UJ".

Recoveries for surrogate Decachlorobiphenyl (DCB) were outside the lower control limit on one or both analytical columns in samples listed below. Positive results and quantitation limits for these samples have been qualified "J" and "UJ", respectively.

| Fraction  | Samples                           |
|-----------|-----------------------------------|
| Pesticide | COB03, COB05, COB07, COB08, COB66 |
| Aroclor   | COB01, COB03, COB55, COB66        |

The recovery for 4,4'-DDT was zero percent (0%) on both analytical columns in pesticide MS/MSD analyses of sample COB36. The positive result for this analyte in this sample has been qualified "J".

The recovery of heptachlor was outside the upper control limit on one analytical column in the matrix spike analysis of pesticide sample COB36. In addition, the Relative Percent Difference (RPD) for this analyte was outside the control limit on both columns. The positive result for this analyte in this sample has been qualified "J".

The following analytes exceeded the calibration range in the diluted analysis of samples listed. Positive results for these analytes in the affected samples have been qualified "J".

| Fraction | Affected Sample     | Affected Analytes  |
|----------|---------------------|--|
| PAH SIM  | COB05, COB55        | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COB07, COB33, COB58 | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COB36, COB53, COB65 | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                       |
|          | COBF6               | Fluoranthene, Pyrene   |

### **Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J".

Pesticide and Aroclor results with dual column precision %D >25% and <200% have been qualified "J".

Laboratory blanks were free of contamination in all fractions with the exception of 4-methyl-2-pentanone <CRQL in VBLK03, carbon disulfide <CRQL in VHBLK01 and methylene chloride <CRQL in all volatile blanks except VBLK83 and VHBLK02. 4-Methyl-2-pentanone and carbon disulfide were not detected in any field samples. Positive results for methylene chloride <CRQL in affected samples have been raised to the CRQL and qualified "U".

Trip blanks COBF4 reported concentration of chloroform >CRQL. Chloroform was not detected in the field samples. Trip Blank COBF5 was free of contamination. No data were qualified based on trip blanks.

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Sample COBF6 is listed as a field duplicate sample on the chain of custody records. The duplicate pair to this sample was not identified. Comparison of results could not be made.

Sample COBF2 was not analyzed for PAH SIM fraction due the high concentration of PAH analytes in semivolatile fraction for this sample. No data were qualified based on this finding.

MS/MSD analyses of Aroclor sample COB36 reported recoveries outside the upper control limit on one column for Aroclor 1016 and 1260. In addition, the RPD for Aroclor 1016 was outside the control limit on one column. No positive results were reported for these analytes in the parent sample. No data were qualified based on these outliers.

Recovery of DMC Fluoranthene-<sub>d10</sub> was outside the lower control limit in the diluted analysis of SIM sample COB53. DMC was diluted out. No data were qualified based on this finding.

Surrogates were diluted out in several pesticide samples analyzed at a dilution. No data were qualified based on this finding.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for samples listed below. The samples were reanalyzed at dilution listed in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction     | Sample              | DF    | Affected Analytes  |
|--------------|---------------------|-------|--|
| Semivolatile | COBF2               | 2X    | Pyrene   |
| PAH          | COAW9               | 5X    | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COAZ8               | 2X    | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|              | COB01               | 5X    | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|              | COB03               | 5X    | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB05, COBF6        | 5X    | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB07, COB58        | 2X    | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene                                     |
|              | COB08               | 5X    | Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|              | COB33               | 5X    | Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene |
|              | COB36, COB53, COB65 | 5X    | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene                         |
|              | COB51               | 2X    | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|              | COB55               | 5X    | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB66               | 2X    | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|              | COBF3               | 2X    | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
|              | Pesticide           | COB08 | 10X  |
| 100X         |                     |       | Dieldrin   |
| COB33        |                     | 2X    | cis-Chlordane  |
| COB36        |                     | 5X    | cis-Chlordane, trans-Chlordane   |
| COB51        |                     | 10X   | Heptachlor, Heptachlor epoxide   |
|              |                     | 100X  | cis-Chlordane, trans-Chlordane   |

The area count for internal standard Chlorobenzene-<sub>d4</sub> was <50% of the area count in the associated calibration standard in volatile sample C0B08. The sample was reanalyzed with acceptable internal standards area counts and DMC recoveries outside the upper control limits. Results from the reanalysis of this sample are reported. No positive results were reported in this sample. No data were qualified based on this finding.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: ABLK24

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS24 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 30                | J               | ug/kg | 30         | J        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 30                | J               | ug/kg | 30         | J        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0AW9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-106

pH:

Sample Date: 11/12/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 78.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-106 | pH:                | Sample Date: 11/12/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                    | % Solids: 78.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.7               | J               | ug/kg | 1.7        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.84              | J               | ug/kg | 0.84       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.26              | J               | ug/kg | 0.26       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 7.6               | J               | ug/kg | 7.6        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 7.0               | J               | ug/kg | 7.0        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-106 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                       | % Solids: 78.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | UJ              | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 410               |                 | ug/kg | 410        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 270               | J               | ug/kg | 270        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 300               | N               | ug/kg | 300        | N        | 1.0             | YES        | NV               |
| Tetradecanoic acid         | TIC          | 88                | JN              | ug/kg | 88         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-106 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                              | % Solids: 78.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.97              | J               | ug/kg | 0.97       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 58                |                 | ug/kg | 58         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 64                |                 | ug/kg | 64         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-106 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                           | % Solids: 78.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.1               | J               | ug/kg | 5.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.2               |                 | ug/kg | 6.2        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.0               | U               | ug/kg | 6.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0AZ8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-135

pH:

Sample Date: 11/11/2020

Sample Time: 13:45:00

% Moisture:

% Solids: 81.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AZ8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                    | % Solids: 81.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.24              | J               | ug/kg | 0.24       | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.5               |                 | ug/kg | 2.5        |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.64              | J               | ug/kg | 0.64       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 6.4               |                 | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.47              | J               | ug/kg | 0.47       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.2               | J               | ug/kg | 5.2        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 6.1               | J               | ug/kg | 6.1        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AZ8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                       | % Solids: 81.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | UJ              | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Benzenediamine, 2,4-dinitro-N3 | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 1500              | N               | ug/kg | 1500       | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Phenol, 4-chloro-3-methyl-         | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | NV               |
| Ethanol, 2-(2-ethoxyethoxy)-       | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                              | % Solids: 81.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 87                |                 | ug/kg | 87         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 92                |                 | ug/kg | 92         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 58                |                 | ug/kg | 58         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 64                |                 | ug/kg | 64         | D        | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 72                |                 | ug/kg | 72         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AZ8        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                           | % Solids: 81.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.9               | J               | ug/kg | 5.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.6               | U               | ug/kg | 3.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.6               | U               | ug/kg | 5.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B01        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:              | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                  | % Solids: 79.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | UJ              | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B01        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                    | % Solids: 79.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.53              | J               | ug/kg | 0.53       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.92              | J               | ug/kg | 0.92       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.87              | J               | ug/kg | 0.87       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 7.4               | J               | ug/kg | 7.4        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 6.8               | J               | ug/kg | 6.8        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B01        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                       | % Solids: 79.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 400               |                 | ug/kg | 400        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Decane, 5,6-bis(2,2-dimethylpropyl | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 420               | N               | ug/kg | 420        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B01        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                              | % Solids: 79.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 6.8               |                 | ug/kg | 6.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 61                |                 | ug/kg | 61         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 65                |                 | ug/kg | 65         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 73                |                 | ug/kg | 73         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 89                |                 | ug/kg | 89         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 66                |                 | ug/kg | 66         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B01        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                           | % Solids: 79.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.9               | J               | ug/kg | 5.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.9               | U               | ug/kg | 5.0        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B03

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-140

pH:

Sample Date: 11/12/2020

Sample Time: 10:05:00

% Moisture:

% Solids: 69.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | UJ              | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B03        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-140 | pH:                | Sample Date: 11/12/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                    | % Solids: 69.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.48              | J               | ug/kg | 0.48       | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B03        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-140 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                       | % Solids: 69.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | UJ              | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 600               |                 | ug/kg | 600        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 240               | J               | ug/kg | 240        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 610               | N               | ug/kg | 610        | N        | 1.0             | YES        | NV               |
| Tridecanoic acid           | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B03        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-140 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                              | % Solids: 69.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 65                |                 | ug/kg | 65         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 90                |                 | ug/kg | 90         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B03        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-140 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                           | % Solids: 69.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.0               | U               | ug/kg | 5.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B05

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-142

pH:

Sample Date: 11/12/2020

Sample Time: 10:55:00

% Moisture:

% Solids: 71.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B05        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                    | % Solids: 71.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.89              | J               | ug/kg | 0.89       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.4               | J               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B05        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                       | % Solids: 71.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 350               | U               | ug/kg | 350        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 740               |                 | ug/kg | 740        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 650               |                 | ug/kg | 650        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Heptadecyl heptafluorobutyrate | TIC          | 930               | JN              | ug/kg | 930        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| unknown-01                     | TIC          | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B05        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                              | % Solids: 71.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 320               |                 | ug/kg | 320        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 69                |                 | ug/kg | 69         | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 610               | J               | ug/kg | 610        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 590               | J               | ug/kg | 590        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 330               |                 | ug/kg | 330        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 350               |                 | ug/kg | 350        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B05        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                           | % Solids: 71.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 8.5               | J               | ug/kg | 8.5        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.5               | U               | ug/kg | 5.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B07

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-144

pH:

Sample Date: 11/12/2020

Sample Time: 12:10:00

% Moisture:

% Solids: 75.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B07        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                    | % Solids: 75.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.51              | J               | ug/kg | 0.51       | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.45              | J               | ug/kg | 0.45       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.31              | J               | ug/kg | 0.31       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B07        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                       | % Solids: 75.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 760               |                 | ug/kg | 760        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 730               |                 | ug/kg | 730        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 590               |                 | ug/kg | 590        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 760               |                 | ug/kg | 760        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                  | TIC          | 200               | N               | ug/kg | 200        | N        | 1.0             | YES        | NV               |
| unknown-01                     | TIC          | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | NV               |
| Benzo[c]cinnoline              | TIC          | 92                | JN              | ug/kg | 92         | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| n-Hexadecanoic acid            | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene           | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B07        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                              | % Solids: 75.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 270               | J               | ug/kg | 270        | ED       | 2.0             | YES        | S4VEM            |
| Anthracene             | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 740               | J               | ug/kg | 740        | ED       | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 600               | J               | ug/kg | 600        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 440               | J               | ug/kg | 440        | ED       | 2.0             | YES        | S4VEM            |
| Chrysene               | Target       | 570               | J               | ug/kg | 570        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 680               | J               | ug/kg | 680        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 230               | J               | ug/kg | 230        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 470               | J               | ug/kg | 470        | ED       | 2.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 320               | J               | ug/kg | 320        | ED       | 2.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 99                |                 | ug/kg | 99         | D        | 2.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 360               | J               | ug/kg | 360        | ED       | 2.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B07        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                           | % Solids: 75.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               | U               | ug/kg | 5.3        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B08        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:              | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                  | % Solids: 69.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B08        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                    | % Solids: 69.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 210               |                 | ug/kg | 210        | D        | 10.0            | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.78              | J               | ug/kg | 0.78       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 2900              |                 | ug/kg | 2900       | D        | 100.0           | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.3               | J               | ug/kg | 2.3        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 6.4               | J               | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | J               | ug/kg | 4.4        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 30                | J               | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | J               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.9               | J               | ug/kg | 1.9        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B08        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                       | % Solids: 69.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B08        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                              | % Solids: 69.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 6.9               | J               | ug/kg | 6.9        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 78                |                 | ug/kg | 78         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 72                |                 | ug/kg | 72         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 89                |                 | ug/kg | 89         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 78                |                 | ug/kg | 78         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B08        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                           | % Solids: 69.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 0.68              | J               | ug/kg | 0.68       | J        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 7.8               | J               | ug/kg | 7.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | U               | ug/kg | 6.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B33

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-102

pH:

Sample Date: 11/11/2020

Sample Time: 08:45:00

% Moisture:

% Solids: 76.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B33        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-102 | pH:                | Sample Date: 11/11/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                    | % Solids: 76.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               |                 | ug/kg | 2.2        |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 4.7               | J               | ug/kg | 4.7        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.8               | J               | ug/kg | 4.8        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.99              | J               | ug/kg | 0.99       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 43                | J               | ug/kg | 43         | DP       | 2.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 34                | J               | ug/kg | 34         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B33        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-102 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                       | % Solids: 76.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 880               |                 | ug/kg | 880        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 960               |                 | ug/kg | 960        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 440               |                 | ug/kg | 440        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 830               |                 | ug/kg | 830        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo[e]pyrene                     | TIC          | 670               | JN              | ug/kg | 670        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro- | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one         | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene               | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4-methyl-            | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B33        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-102 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                              | % Solids: 76.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 77                |                 | ug/kg | 77         | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1600              | J               | ug/kg | 1600       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1400              | J               | ug/kg | 1400       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 770               | J               | ug/kg | 770        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 860               | J               | ug/kg | 860        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 990               | J               | ug/kg | 990        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 360               | J               | ug/kg | 360        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 750               | J               | ug/kg | 750        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B36

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-105

pH:

Sample Date: 11/10/2020

Sample Time: 11:25:00

% Moisture:

% Solids: 61.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B36        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-105 | pH:                | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:                 |                    | % Solids: 61.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.7               |                 | ug/kg | 2.7        |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 19                | J               | ug/kg | 19         | P        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 7.8               | R               | ug/kg | 7.8        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.46              | J               | ug/kg | 0.46       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 61                | J               | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 74                | J               | ug/kg | 74         | DP       | 5.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 77                | J               | ug/kg | 77         | DP       | 5.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B36        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-105 | pH:                   | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:                 |                       | % Solids: 61.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 530               | UJ              | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 840               |                 | ug/kg | 840        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 530               | U               | ug/kg | 530        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 870               |                 | ug/kg | 870        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 540               |                 | ug/kg | 540        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 610               |                 | ug/kg | 610        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | S4VEM            |
| Thieno[2,3-d]-1,3-thiaselenol-2-th | TIC          | 230               | JN              | ug/kg | 230        | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 540               | JN              | ug/kg | 540        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| 4,5,6,7-Tetrafluoro-2-methyl-1H-be | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-             | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| 5H-Dibenzo[a,d]cycloheptene        | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B36        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-105 | pH:                          | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:                 |                              | % Solids: 61.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 76                |                 | ug/kg | 76         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 80                |                 | ug/kg | 80         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | J               | ug/kg | 8.5        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1700              | J               | ug/kg | 1700       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 790               | J               | ug/kg | 790        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 950               | J               | ug/kg | 950        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 420               |                 | ug/kg | 420        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 830               | J               | ug/kg | 830        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 600               | J               | ug/kg | 600        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B36MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:25:00

% Moisture:

% Solids: 61.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 230               |                 | ug/kg | 230        | P        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 220               |                 | ug/kg | 220        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B36MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:            |                    | % Solids: 61.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 53                |                 | ug/kg | 53         | E        | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 7.2               |                 | ug/kg | 7.2        | P        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 2.2               | J               | ug/kg | 2.2        | JP       | 1.0             | YES        | NV               |
| Endrin              | Spike        | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.9               | J               | ug/kg | 3.9        | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.82              | J               | ug/kg | 0.82       | JP       | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 120               |                 | ug/kg | 120        | EP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 140               |                 | ug/kg | 140        | EP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B36MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:25:00

% Moisture:

% Solids: 61.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 190               |                 | ug/kg | 190        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 53                | U               | ug/kg | 53         | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B36MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:             |                    | % Solids: 61.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 7.3               |                 | ug/kg | 7.3        | P        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.7               | U               | ug/kg | 2.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 2.9               | J               | ug/kg | 2.9        | JP       | 1.0             | YES        | NV               |
| Endrin              | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.2               | J               | ug/kg | 4.2        | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 0.75              | J               | ug/kg | 0.75       | JP       | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 27                | U               | ug/kg | 27         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 5.3               | U               | ug/kg | 5.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 81                |                 | ug/kg | 81         | EP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 86                |                 | ug/kg | 86         | EP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 270               | U               | ug/kg | 270        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B51

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-120

pH:

Sample Date: 11/11/2020

Sample Time: 09:35:00

% Moisture:

% Solids: 82.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 40                | U               | ug/kg | 40         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B51        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-120 | pH:                | Sample Date: 11/11/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                    | % Solids: 82.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 10                | J               | ug/kg | 10         | P        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 33                | J               | ug/kg | 33         | DP       | 10.0            | YES        | S4VEM            |
| Aldrin              | Target       | 27                | R               | ug/kg | 27         | P        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 260               | R               | ug/kg | 260        | DP       | 10.0            | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 26                | J               | ug/kg | 26         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 13                | R               | ug/kg | 13         | P        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 49                | R               | ug/kg | 49         | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 21                | J               | ug/kg | 21         | P        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.0               | U               | ug/kg | 4.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2600              | J               | ug/kg | 2600       | DP       | 100.0           | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2300              | J               | ug/kg | 2300       | DP       | 100.0           | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B51        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-120 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                       | % Solids: 82.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 81                | UJ              | ug/kg | 81         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 400               | U               | ug/kg | 400        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1-Perchloroethenyl-4-ethynylbenzen | TIC          | 550               | JN              | ug/kg | 550        | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 140               | N               | ug/kg | 140        | N        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | NV               |
| Benzene, 1,2,3,5-tetrachloro-      | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| cis-Chlordane                      | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| 4,7-Methanoindene, 1,2,3,5,6,7,8,8 | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B51        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-120 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                              | % Solids: 82.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.1               | U               | ug/kg | 8.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 73                |                 | ug/kg | 73         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 77                |                 | ug/kg | 77         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 72                |                 | ug/kg | 72         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 9.9               |                 | ug/kg | 9.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B36

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B53        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:              | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                  | % Solids: 72.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B53        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:                | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                    | % Solids: 72.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.5               | J               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | J               | ug/kg | 2.4        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.7               | J               | ug/kg | 1.7        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.73              | J               | ug/kg | 0.73       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.3               | R               | ug/kg | 4.3        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 3.3               | R               | ug/kg | 3.3        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B53        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                       | % Solids: 72.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 820               |                 | ug/kg | 820        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 860               |                 | ug/kg | 860        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 940               |                 | ug/kg | 940        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 630               |                 | ug/kg | 630        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 800               |                 | ug/kg | 800        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Phthalic acid, 2,7-dimethyloct-7-e | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one         | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 370               | JN              | ug/kg | 370        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro- | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 110               | N               | ug/kg | 110        | N        | 1.0             | YES        | NV               |
| 11H-Benzof[b]fluorene              | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 5-Octadecene, (E)-                 | TIC          | 95                | JN              | ug/kg | 95         | JN       | 1.0             | YES        | NV               |
| Benzo[j]fluoranthene               | TIC          | 630               | JN              | ug/kg | 630        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B53        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                              | % Solids: 72.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.1               |                 | ug/kg | 6.1        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 730               | J               | ug/kg | 730        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1400              | J               | ug/kg | 1400       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 710               | J               | ug/kg | 710        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 810               | J               | ug/kg | 810        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 950               | J               | ug/kg | 950        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 360               |                 | ug/kg | 360        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 690               | J               | ug/kg | 690        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 420               | J               | ug/kg | 420        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 430               | J               | ug/kg | 430        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B55

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-124

pH:

Sample Date: 11/11/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 76.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | UJ              | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B55        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-124 | pH:                | Sample Date: 11/11/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                    | % Solids: 76.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 6.3               | J               | ug/kg | 6.3        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.5               | R               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B55        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-124 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                       | % Solids: 76.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B55        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-124 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                              | % Solids: 76.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 6.1               |                 | ug/kg | 6.1        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 360               | J               | ug/kg | 360        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B58

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-127

pH:

Sample Date: 11/11/2020

Sample Time: 11:15:00

% Moisture:

% Solids: 77.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B58        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-127 | pH:                | Sample Date: 11/11/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                    | % Solids: 77.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.56              | J               | ug/kg | 0.56       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.78              | J               | ug/kg | 0.78       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.66              | J               | ug/kg | 0.66       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B58        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-127 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                       | % Solids: 77.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | UJ              | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 620               |                 | ug/kg | 620        |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 740               |                 | ug/kg | 740        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 820               |                 | ug/kg | 820        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 580               |                 | ug/kg | 580        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| .alpha.-Pinene                      | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                 | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| unknown-04                          | TIC          | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | NV               |
| Benzene, 1,2,3-trimethoxy-5-(2-pro  | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Camphene                            | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| unknown-03                          | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |
| (1R)-2,6,6-Trimethylbicyclo[3.1.1]  | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di  | TIC          | 340               | JN              | ug/kg | 340        | JN       | 1.0             | YES        | NV               |
| unknown-02                          | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |
| unknown-01                          | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| 2,3,5,6-Tetramethylterephthalaldehy | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B58        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-127 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                              | % Solids: 77.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.7               |                 | ug/kg | 5.7        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 280               | J               | ug/kg | 280        | ED       | 2.0             | YES        | S4VEM            |
| Anthracene             | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 950               | J               | ug/kg | 950        | ED       | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 900               | J               | ug/kg | 900        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 550               | J               | ug/kg | 550        | ED       | 2.0             | YES        | S4VEM            |
| Chrysene               | Target       | 660               | J               | ug/kg | 660        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 740               | J               | ug/kg | 740        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 250               | J               | ug/kg | 250        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 510               | J               | ug/kg | 510        | ED       | 2.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 340               | J               | ug/kg | 340        | ED       | 2.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 100               |                 | ug/kg | 100        | D        | 2.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 400               | J               | ug/kg | 400        | ED       | 2.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B65

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-134

pH:

Sample Date: 11/11/2020

Sample Time: 12:55:00

% Moisture:

% Solids: 73.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B65        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-134 | pH:                | Sample Date: 11/11/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                    | % Solids: 73.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 3.4               | R               | ug/kg | 3.4        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B65        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-134 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                       | % Solids: 73.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | UJ              | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 620               |                 | ug/kg | 620        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 710               |                 | ug/kg | 710        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 890               |                 | ug/kg | 890        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 970               |                 | ug/kg | 970        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 560               |                 | ug/kg | 560        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 680               |                 | ug/kg | 680        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 9,10-Anthracenedione           | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| n-Tetracosanol-1               | TIC          | 910               | JN              | ug/kg | 910        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          | 270               | N               | ug/kg | 270        | N        | 1.0             | YES        | NV               |
| unknown-01                     | TIC          | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid            | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |
| 1H-Indene, 2-phenyl-           | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 6-Phenylbenzocyclohepten-7-one | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B65        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-134 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                              | % Solids: 73.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.8               |                 | ug/kg | 4.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 560               | J               | ug/kg | 560        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 84                |                 | ug/kg | 84         | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1400              | J               | ug/kg | 1400       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 700               | J               | ug/kg | 700        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 830               | J               | ug/kg | 830        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 360               |                 | ug/kg | 360        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 770               | J               | ug/kg | 770        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0B66

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-135

pH:

Sample Date: 11/11/2020

Sample Time: 13:50:00

% Moisture:

% Solids: 74.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | UJ              | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B66        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-135 | pH:                | Sample Date: 11/11/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                    | % Solids: 74.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.92              | J               | ug/kg | 0.92       | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | J               | ug/kg | 2.3        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B66        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-135 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                       | % Solids: 74.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | UJ              | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid        | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 350               | N               | ug/kg | 350        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B66        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-135 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                              | % Solids: 74.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.1               |                 | ug/kg | 7.1        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 91                |                 | ug/kg | 91         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 90                |                 | ug/kg | 90         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 63                |                 | ug/kg | 63         | D        | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 78                |                 | ug/kg | 78         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 35                |                 | ug/kg | 35         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 70                |                 | ug/kg | 70         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 55                |                 | ug/kg | 55         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0BF2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-169

pH:

Sample Date: 11/11/2020

Sample Time: 12:15:00

% Moisture:

% Solids: 76.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BF2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-169 | pH:                | Sample Date: 11/11/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                    | % Solids: 76.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.39              | J               | ug/kg | 0.39       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.94              | J               | ug/kg | 0.94       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.0               | J               | ug/kg | 4.0        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 21                | J               | ug/kg | 21         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 17                | J               | ug/kg | 17         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BF2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-169 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                       | % Solids: 76.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | UJ              | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 2000              |                 | ug/kg | 2000       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 4300              |                 | ug/kg | 4300       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 4200              |                 | ug/kg | 4200       | D        | 2.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 2400              |                 | ug/kg | 2400       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 2700              |                 | ug/kg | 2700       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 3200              |                 | ug/kg | 3200       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 1200              |                 | ug/kg | 1200       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 2400              |                 | ug/kg | 2400       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 1500              |                 | ug/kg | 1500       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 470               |                 | ug/kg | 470        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | NV               |
| Benzo[e]pyrene                     | TIC          | 1700              | JN              | ug/kg | 1700       | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 440               | JN              | ug/kg | 440        | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | NV               |
| .alpha.-Pinene                     | TIC          | 470               | JN              | ug/kg | 470        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one         | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-ol                    | TIC          | 93                | JN              | ug/kg | 93         | JN       | 1.0             | YES        | NV               |
| 1H-Indene, 2-phenyl-               | TIC          | 680               | JN              | ug/kg | 680        | JN       | 1.0             | YES        | NV               |
| Cyclopenta[cd]pyrene               | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| unknown-04                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Phenanthrene, 2,7-dimethyl-        | TIC          | 97                | JN              | ug/kg | 97         | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 350               | JN              | ug/kg | 350        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 4,5-dimethyl-        | TIC          | 94                | JN              | ug/kg | 94         | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-            | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| unknown-06                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| Caryophyllene                      | TIC          | 950               | JN              | ug/kg | 950        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene                   | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | NV               |
| unknown-05                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| .gamma.-Muurolene                  | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 640               | JN              | ug/kg | 640        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene    | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B36

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BF3        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:              | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                  | % Solids: 75.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 13                | J               | ug/kg | 13         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BF3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                    | % Solids: 75.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.79              | J               | ug/kg | 0.79       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.39              | J               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BF3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                   | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                       | % Solids: 75.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | UJ              | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 450               |                 | ug/kg | 450        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 59                | J               | ug/kg | 59         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 840               | J               | ug/kg | 840        | J        | 1.0             | YES        | NV               |
| Naphthalene, 1,2,3,5,6,8a-hexahydr | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 540               | JN              | ug/kg | 540        | JN       | 1.0             | YES        | NV               |
| (1R)-2,6,6-Trimethylbicyclo[3.1.1] | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 420               | N               | ug/kg | 420        | N        | 1.0             | YES        | NV               |
| n-Hexadecanoic acid                | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Caryophyllene                      | TIC          | 1000              | JN              | ug/kg | 1000       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BF3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                          | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                              | % Solids: 75.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 87                |                 | ug/kg | 87         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 89                |                 | ug/kg | 89         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 66                |                 | ug/kg | 66         | D        | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 85                |                 | ug/kg | 85         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 63                |                 | ug/kg | 63         | D        | 2.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                           | % Solids: 75.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.3               |                 | ug/kg | 7.3        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| .alpha.-Pinene | TIC          | 21                | JN              | ug/kg | 21         | JN       | 1.0             | YES        | NV               |
| D-Limonene     | TIC          | 4.8               | JN              | ug/kg | 4.8        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF4       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-02 | pH: 1.0                   | Sample Date: 11/11/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 16                | U               | ug/L  | 16         | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF5       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-03 | pH: 1.0                   | Sample Date: 11/12/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

Sample Number: C0BF6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-148-01

pH:

Sample Date: 11/12/2020

Sample Time: 15:15:00

% Moisture:

% Solids: 78.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BF6           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148-01 | pH:                | Sample Date: 11/12/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                    | % Solids: 78.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.45              | J               | ug/kg | 0.45       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.37              | J               | ug/kg | 0.37       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | J               | ug/kg | 4.4        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.30              | J               | ug/kg | 0.30       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.84              | J               | ug/kg | 0.84       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.46              | J               | ug/kg | 0.46       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BF6           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148-01 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                       | % Solids: 78.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | UJ              | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 530               |                 | ug/kg | 530        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 470               |                 | ug/kg | 470        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 47                | J               | ug/kg | 47         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene, 2-methyl-        | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-          | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          | 220               | N               | ug/kg | 220        | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BF6           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148-01 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                              | % Solids: 78.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 68                |                 | ug/kg | 68         | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 380               | J               | ug/kg | 380        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 200               |                 | ug/kg | 200        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 96                |                 | ug/kg | 96         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK76 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS76 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.4               |                 | ug/kg | 3.4        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK83 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK84 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK03 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK05 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK06 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK30 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK83 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.54              | J               | ug/kg | 0.54       | J        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.7               | J               | ug/kg | 2.7        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B36

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/25/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B60 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220076





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 21, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COB60

**Overview**

This data package consisted of six (6) soil samples analyzed for semivolatile, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), Pesticides, and Aroclors.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 24, 2020.

**Summary**

Significant dual column precision outliers were identified that resulted in rejection of pesticide results. Surrogate recovery qualification of pesticide results and results over the upper calibration in the PAH SIM analysis required estimation of results.

**Major Problem**

The following analytes had Percent Difference (%D) > 200% between the dual column analyses. Reported results for these analytes in samples listed below have been rejected and qualified "R".

| <b>Fraction</b> | <b>Affected Samples</b> | <b>Affected Analytes</b> |
|-----------------|-------------------------|--------------------------|
| Pesticide       | COB60                   | cis-Chlordane            |
|                 | COB98                   | cis-Chlordane            |



**Minor Problem**

Percent recoveries for pesticide surrogate decachlorobiphenyl was outside the lower control limit for samples COB78, COB89 and COB96. No analytes were detected > the CRQL. Results < the CRQL are estimated and have been qualified "J". Non detects were qualified "UJ".

The following analytes exceeded calibration range in the diluted analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COBJO  | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene |

**Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Method blanks were free from contamination for other fractions.

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits except for recovery of COBJOMSD gamma-BHC (Lindane). No data were qualified based on MS/MSD accuracy and precision.

Percent recovery for DMC/surrogate Acenaphthylene-d8 was outside the upper control limit for SVOC sample COBJO. No analytes were detected > the CRQL. No results were qualified due to this finding.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample | DF  | Analyte   |
|----------|--------|-----|---|
| PAH      | C0B60  | 10x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene  |
|          | C0B96  | 5x  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene  |
|          | C0B98  | 5x  | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene  |
|          | C0BJ0  | 5x  | Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h)anthracene, Benzo(g,h,i)perylene |

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

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**Glossary of Organic Data Qualifier Codes**

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**Validation  
Qualifiers**

In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

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**Additional  
Qualifiers**

Additional qualifiers may be combined with other qualifiers.

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- N The analyte has been "tentatively identified" or "presumptively" as present.
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
- X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: ABLK16

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: ALCS16

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 32                | J               | ug/kg | 32         | J        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0B60

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-129

pH:

Sample Date: 12/02/2020

Sample Time: 11:35:00

% Moisture:

% Solids: 74.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B60        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-129 | pH:                | Sample Date: 12/02/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                    | % Solids: 74.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.89              | J               | ug/kg | 0.89       | J        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.5               |                 | ug/kg | 5.5        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.5               | R               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.62              | J               | ug/kg | 0.62       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B60        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-129 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                       | % Solids: 74.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 340               | J               | ug/kg | 340        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B60        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-129 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                              | % Solids: 74.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 120               |                 | ug/kg | 120        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 310               |                 | ug/kg | 310        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 320               |                 | ug/kg | 320        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 170               |                 | ug/kg | 170        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 170               |                 | ug/kg | 170        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 230               |                 | ug/kg | 230        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 79                |                 | ug/kg | 79         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 160               |                 | ug/kg | 160        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 78                |                 | ug/kg | 78         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 75                |                 | ug/kg | 75         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0B78

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-147

pH:

Sample Date: 12/02/2020

Sample Time: 12:05:00

% Moisture:

% Solids: 74.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 11                | J               | ug/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B78        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-147 | pH:                | Sample Date: 12/02/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                    | % Solids: 74.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.63              | J               | ug/kg | 0.63       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.42              | J               | ug/kg | 0.42       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B78        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-147 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                       | % Solids: 74.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B78        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-147 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                              | % Solids: 74.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 6.7               | J               | ug/kg | 6.7        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 34                |                 | ug/kg | 34         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0B89

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-158

pH:

Sample Date: 12/02/2020

Sample Time: 13:35:00

% Moisture:

% Solids: 76.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B89        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-158 | pH:                | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                    | % Solids: 76.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B89        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-158 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                       | % Solids: 76.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 160               | N               | ug/kg | 160        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B89        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-158 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                              | % Solids: 76.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0B96

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-165

pH:

Sample Date: 12/02/2020

Sample Time: 14:15:00

% Moisture:

% Solids: 75.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B96        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-165 | pH:                | Sample Date: 12/02/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                    | % Solids: 75.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.37              | J               | ug/kg | 0.37       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B96        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-165 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                       | % Solids: 75.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 89                | U               | ug/kg | 89         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B96        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-165 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                              | % Solids: 75.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.6               |                 | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.9               | U               | ug/kg | 8.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 99                |                 | ug/kg | 99         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 98                |                 | ug/kg | 98         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 52                |                 | ug/kg | 52         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 92                |                 | ug/kg | 92         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0B98

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-167

pH:

Sample Date: 12/02/2020

Sample Time: 14:55:00

% Moisture:

% Solids: 76.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B98        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-167 | pH:                | Sample Date: 12/02/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                    | % Solids: 76.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.41              | J               | ug/kg | 0.41       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.47              | J               | ug/kg | 0.47       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.52              | J               | ug/kg | 0.52       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.45              | J               | ug/kg | 0.45       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 5.7               | R               | ug/kg | 5.7        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B98        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-167 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                       | % Solids: 76.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-04                         | TIC          | 870               | J               | ug/kg | 870        | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 450               | J               | ug/kg | 450        | J        | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 500               | J               | ug/kg | 500        | J        | 1.0             | YES        | NV               |
| 7-Isopropyl-1,1,4a-trimethyl-1,2,3 | TIC          | 400               | JN              | ug/kg | 400        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 1,2,3,5,6,7,8,8a-octa | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 2-Phenanthrenol, 4b,5,6,7,8,8a,9,1 | TIC          | 780               | JN              | ug/kg | 780        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B98        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-167 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                              | % Solids: 76.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 90                |                 | ug/kg | 90         | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 99                |                 | ug/kg | 99         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0BJ0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-170

pH:

Sample Date: 12/02/2020

Sample Time: 12:50:00

% Moisture:

% Solids: 72.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BJ0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-170 | pH:                | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                    | % Solids: 72.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.27              | J               | ug/kg | 0.27       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BJ0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-170 | pH:                   | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                       | % Solids: 72.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 970               |                 | ug/kg | 970        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 560               |                 | ug/kg | 560        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 630               |                 | ug/kg | 630        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 720               |                 | ug/kg | 720        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 500               |                 | ug/kg | 500        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene, 1-methyl-            | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 6-Phenylbenzocyclohepten-7-one     | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 210               | N               | ug/kg | 210        | N        | 1.0             | YES        | NV               |
| Perylene                           | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,3-d]thiophene    | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 4-Pyrenecarbaldehyde               | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Thiophene-3-carboxaldehyde, 5-chlo | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene               | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BJ0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-170 | pH:                          | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                              | % Solids: 72.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.7               |                 | ug/kg | 5.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 72                |                 | ug/kg | 72         | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 70                |                 | ug/kg | 70         | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 890               | J               | ug/kg | 890        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1100              | J               | ug/kg | 1100       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 520               | J               | ug/kg | 520        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 520               | J               | ug/kg | 520        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 660               | J               | ug/kg | 660        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 460               | J               | ug/kg | 460        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 210               |                 | ug/kg | 210        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 72                |                 | ug/kg | 72         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

Sample Number: C0BJ0MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 12/02/2020

Sample Time: 12:50:00

% Moisture:

% Solids: 72.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BJ0MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:            |                    | % Solids: 72.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.65              | J               | ug/kg | 0.65       | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B60

**Lab Name:** Chemtech Consulting Group

|                         |                  |                         |                       |
|-------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BJ0MSD | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:              | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:             |                  | % Solids: 72.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 200               |                 | ug/kg | 200        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 200               | J               | ug/kg | 200        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BJ0MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:             |                    | % Solids: 72.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 54                |                 | ug/kg | 54         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.48              | J               | ug/kg | 0.48       | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 0.57              | J               | ug/kg | 0.57       | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK24 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS24 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.4               |                 | ug/kg | 3.4        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.7               |                 | ug/kg | 3.7        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.7               |                 | ug/kg | 1.7        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK25 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B60

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK26 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

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**Project Name: NORWOOD LANDFILL Project**

**GroupID: 49167/EPW14030/C0B60**

**Lab Name: Chemtech Consulting Group**

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III

Environmental Sciences Center

701 Mapes Road

Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B74 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220039





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 5, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 COB74

### Overview

This data package consisted of eight (8) soil samples analyzed for semi volatiles, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), pesticides, and aroclors.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 10, 2020.

### Summary

Deuterated Monitoring Compound (DMC) recovery outliers were identified that required rejection of sample results. Surrogate recovery, continuous calibration verification, and concentration exceeding calibration range required qualification of results.

### Major Problem

Percent recoveries for semivolatile DMCs 1,4-dioxane-d8 and 4-nitrophenol-d4 were < 10% for sample COB87. The associated analytes were not detected in the sample. Quantitation limits are unusable and have been qualified "R".

**Minor Problems**

Percent recoveries for the following surrogates were outside the lower control limit for the samples listed below. Quantitation limits are estimated and have been qualified "UJ".

| Fraction  | Surrogate          | Affected Samples |
|-----------|--------------------|------------------|
| Pesticide | Decachlorobiphenyl | COB74, COB87     |

The following analyte failed Percent Difference (%D) criteria in continuing calibration verification analysis. Quantitation limits are estimated and have been qualified "UJ".

| Fraction     | Standard ID          | Affected Analytes   | Associated Samples |
|--------------|----------------------|---------------------|--------------------|
| Semivolatile | SSTD02071, SSTD02072 | Hexachlorobutadiene | All samples in SDG |

The following analytes exceeded calibration range in the analysis of sample listed below; the sample was not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COB74  | 5x | Fluoranthene, Pyrene, Benzo(b)fluoranthene, Benzo(a)pyrene |

**Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Method blanks were free from contamination for all fractions.

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits except for recoveries of Aroclor-1016 and Aroclor-1260 on one (1) analytical column. No data were qualified based on MS/MSD accuracy and precision.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of the sample listed. The sample was reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilution. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample | DF | Analyte  |
|----------|--------|----|--|
| PAH      | COB74  | 5x | Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |



Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COB74. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

#### Glossary of Organic Data Qualifier Codes

| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
|-----------------------|---|
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.   |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: ABLK69

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: ALCS69

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 32                | J               | ug/kg | 32         | J        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0B74

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-143

pH:

Sample Date: 11/19/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 74.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 20                | J               | ug/kg | 20         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B74        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-143 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                    | % Solids: 74.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.88              | J               | ug/kg | 0.88       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.41              | J               | ug/kg | 0.41       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B74        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-143 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                       | % Solids: 74.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 710               |                 | ug/kg | 710        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 300               |                 | ug/kg | 300        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 57                | J               | ug/kg | 57         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Perylene                   | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| unknown-01                 | TIC          | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B74        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-143 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                              | % Solids: 74.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 330               |                 | ug/kg | 330        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 780               | J               | ug/kg | 780        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 580               | J               | ug/kg | 580        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 350               |                 | ug/kg | 350        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 530               | J               | ug/kg | 530        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 360               | J               | ug/kg | 360        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 66                |                 | ug/kg | 66         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0B87

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-156

pH:

Sample Date: 11/19/2020

Sample Time: 13:50:00

% Moisture:

% Solids: 75.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B87        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-156 | pH:                | Sample Date: 11/19/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                    | % Solids: 75.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.30              | J               | ug/kg | 0.30       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B87        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-156 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                       | % Solids: 75.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | R               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | R               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | R               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | R               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | R               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | R               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Heptane                    | TIC          | 1300              | JN              | ug/kg | 1300       | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          | 120               | N               | ug/kg | 120        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B87        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-156 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                              | % Solids: 75.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 39                |                 | ug/kg | 39         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 9.2               |                 | ug/kg | 9.2        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0BC1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-136

pH:

Sample Date: 11/19/2020

Sample Time: 09:25:00

% Moisture:

% Solids: 79.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                    | % Solids: 79.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                       | % Solids: 79.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 220               | N               | ug/kg | 220        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                              | % Solids: 79.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0BC5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-143

pH:

Sample Date: 11/19/2020

Sample Time: 11:40:00

% Moisture:

% Solids: 80.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                    | % Solids: 80.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                       | % Solids: 80.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 130               | N               | ug/kg | 130        | N        | 1.0             | YES        | NV               |
| Selenide, ethyl 1-methyl-1-penten- | TIC          | 870               | JN              | ug/kg | 870        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                              | % Solids: 80.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.85              | J               | ug/kg | 0.85       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.83              | J               | ug/kg | 0.83       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 8.0               |                 | ug/kg | 8.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 9.9               |                 | ug/kg | 9.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.6               | J               | ug/kg | 3.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 7.6               |                 | ug/kg | 7.6        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 5.3               |                 | ug/kg | 5.3        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0BC8

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SB-156

pH:

Sample Date: 11/19/2020

Sample Time: 13:45:00

% Moisture:

% Solids: 83.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BC8        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                    | % Solids: 83.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BC8        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                       | % Solids: 83.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 80                | U               | ug/kg | 80         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | UJ              | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Myristin, 1,3-diaceto-2-           | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Hexadecanoic acid, 2,3-bis(acetylo | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Bromoacetic acid, octadecyl ester  | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 310               | J               | ug/kg | 310        | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | NV               |
| Myristin, 2,3-diaceto-1-           | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BC8        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                              | % Solids: 83.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.0               | U               | ug/kg | 8.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B74

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BE0        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:              | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                  | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                    | % Solids: 85.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                       | % Solids: 85.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | UJ              | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 190               | N               | ug/kg | 190        | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                              | % Solids: 85.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0BE1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-DB-143

pH:

Sample Date: 11/19/2020

Sample Time: 11:55:00

% Moisture:

% Solids: 81.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 41                | U               | ug/kg | 41         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                    | % Solids: 81.2          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                       | % Solids: 81.2          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 82                | U               | ug/kg | 82         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | UJ              | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 410               | U               | ug/kg | 410        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1-Heneicosanol             | TIC          | 360               | JN              | ug/kg | 360        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                              | % Solids: 81.2          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.2               | U               | ug/kg | 8.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.1               | U               | ug/kg | 4.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B74

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:              | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                  | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                    | % Solids: 84.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                   | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                       | % Solids: 84.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 79                | U               | ug/kg | 79         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 200               | UJ              | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 390               | U               | ug/kg | 390        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | S4VEM            |
| 4-Fluoro-6-methyl-2-phenylpyrimidi | TIC          | 1600              | JN              | ug/kg | 1600       | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          | 350               | N               | ug/kg | 350        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BE4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                          | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                              | % Solids: 84.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 7.9               | U               | ug/kg | 7.9        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

Sample Number: C0BE4MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 84.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 210               |                 | ug/kg | 210        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE4MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:            |                    | % Solids: 84.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 40                |                 | ug/kg | 40         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name: NORWOOD LANDFILL Project**

**GroupID: 49167/EPW14030/C0B74**

**Lab Name: Chemtech Consulting Group**

|                         |                  |                         |                       |
|-------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BE4MSD | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:              | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:             |                  | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 190               |                 | ug/kg | 190        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 39                | U               | ug/kg | 39         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BE4MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:             |                    | % Solids: 84.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 43                |                 | ug/kg | 43         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 20                | U               | ug/kg | 20         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.9               | U               | ug/kg | 3.9        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 2.0               | U               | ug/kg | 2.0        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 200               | U               | ug/kg | 200        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK84 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS84 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.3               |                 | ug/kg | 3.3        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.4               | JP              | ug/kg | 2.4        | JP       | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK85 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | UJ              | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK86 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B74

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/4/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink, appearing to read "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B79 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220026





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 28, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 C0B79

### Overview

This data package consisted of nineteen (19) soil samples analyzed for semivolatile, Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM), pesticides, and Aroclors. In addition, eight (8) of the soil samples were analyzed for low volatiles.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 8, 2020. Trip blanks C0BF5 (from SDG C0B36) and C0BF8 (from SDG C0B11) are associated with samples in this SDG and used in the evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Deuterated Monitoring Compound (DMC)/surrogate recovery, continuing calibration verification, blanks, and concentration exceeding calibration range required qualification of data.

**Minor Problems**

Percent recoveries for the following DMC/surrogate were outside the lower control limit for the samples listed below. Detected results >CRQL for analytes in these sample are estimated and have been qualified "J-". Quantitation limits are estimated and have been qualified "UJ".

| Fraction     | DMC / Surrogate    | Affected Samples   |
|--------------|--------------------|--|
| Semivolatile | 1,4-Dioxane-d8     | COB85  |
| Pesticide    | Decachlorobiphenyl | COAY2, COB80, COB81, COB82, COB83, COB84, COB85, COB86, COBG0, COBG2 |

The following analytes failed Percent Difference (%D) criteria in continuing calibration verification analysis. Detected results for the analytes in associated samples are estimated and have been qualified "J". Quantitation limits are estimated and have been qualified "UJ".

| Fraction  | Standard ID             | Affected Analytes                | Associated Samples   |
|-----------|-------------------------|----------------------------------|--|
| PAH       | SSTD0.412,<br>SSTD0.413 | Benzo(a)anthracene<br>, Chrysene | COAW3, COAX0, COAX1, COAX4, COAX5, COAY2,<br>COAY6, COB83, COBF9, COBG0, COBG2 |
| Pesticide | INDA324,<br>INDA327     | 4,4' DDT                         | COB79  |
|           | INDA327                 | Methoxychlor                     | COB79  |

The following analytes exceeded calibration range in the analysis of samples listed below; the samples were not reanalyzed at further dilution. Detected results are estimated and have been qualified "J".

| Fraction | Sample          | DF | Analyte  |
|----------|-----------------|----|--|
| PAH      | COB79           | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COB80,<br>COB82 | 5x | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|          | COB84           | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene,<br>Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,<br>Benzo(g,h,i)perylene                       |
|          | COB85           | 5x | Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene,<br>Benzo(b)fluoranthene, Benzo(a)pyrene  |
|          | COB90           | 5x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene,<br>Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene,<br>Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |

**Notes**

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".



For the volatile fraction, method blanks VBLK05, VBLK06, and VBLK07 and storage blank VHBLK01 reported detected concentrations of methylene chloride less than the CRQL; method blank VBLK08 reported detected concentrations of carbon disulfide and methylene chloride less than the CRQL. Detected concentrations of methylene chloride less than the CRQL in the associated samples have been reported at CRQL and qualified "U". Carbon disulfide was not detected in the associated samples.

Method blanks were free from contamination for other fractions.

Trip blanks COBF5 and COBF8 were free from contamination.

Pesticide results with Percent Difference (%D) between the two (2) analytical columns of > 25.0% and < 200% are estimated and have been qualified "J". The lower of the two (2) column result is reported.

Laboratory Control Samples (LCSs) reported recoveries of spiked analytes within control limits. No data were qualified based on LCS accuracy.

Matrix Spikes/Matrix Spike Duplicates (MSs/MSDs) reported recoveries and Relative Percent Differences (RPDs) of spiked analytes within control limits. No data were qualified based on MS/MSD accuracy and precision.

Concentrations of the following analytes exceeded the calibration range in the initial analysis of samples listed. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction | Sample       | DF  | Analyte  |
|----------|--------------|-----|--|
| PAH      | COAW3        | 2x  | Fluoranthene, Pyrene, Benzo(b)fluoranthene   |
|          | COB79        | 5x  | Anthracene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|          | COB80, COB82 | 5x  | Phenanthrene, Benzo(a)anthracene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|          | COB81        | 10x | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene |
|          | COB84        | 5x  | Anthracene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene   |
|          | COB85        | 5x  | Phenanthrene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene   |
|          | COB86        | 5x  | Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|          | COB90        | 5x  | Fluorene, Anthracene, Dibenzo(a,h)anthracene   |

Chain of Custody Records (COCs) list samples COBG0 and COBG2 as field duplicate; however, COCs did not include reference regarding the identification of the corresponding samples. Therefore, no comparison was made.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed on sample COAW3. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

#### Glossary of Organic Data Qualifier Codes

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.   |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: ABLK02

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS02 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 32                | J               | ug/kg | 32         | J        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AW3

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-100

pH:

Sample Date: 11/17/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 74.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 12                | J               | ug/kg | 12         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AW3        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                    | % Solids: 74.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.84              | J               | ug/kg | 0.84       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.67              | J               | ug/kg | 0.67       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.34              | J               | ug/kg | 0.34       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AW3        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                       | % Solids: 74.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 60                | J               | ug/kg | 60         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 67                | J               | ug/kg | 67         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 46                | J               | ug/kg | 46         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          | 900               | B               | ug/kg | 900        | B        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 510               | JN              | ug/kg | 510        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AW3        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                              | % Solids: 74.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 50                |                 | ug/kg | 50         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 73                |                 | ug/kg | 73         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 76                |                 | ug/kg | 76         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 64                | J               | ug/kg | 64         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 65                | J               | ug/kg | 65         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 72                |                 | ug/kg | 72         | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AW3        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                           | % Solids: 74.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.9               |                 | ug/kg | 6.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethanol                               | TIC          | 29                | JN              | ug/kg | 29         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Eucalyptol                         | TIC          | 43                | JN              | ug/kg | 43         | JN       | 1.0             | YES        | NV               |
| o-Cymene                           | TIC          | 59                | JN              | ug/kg | 59         | JN       | 1.0             | YES        | NV               |
| .gamma.-Terpinene                  | TIC          | 43                | JN              | ug/kg | 43         | JN       | 1.0             | YES        | NV               |
| Bicyclo[3.1.0]hexane, 4-methylene- | TIC          | 5.3               | JN              | ug/kg | 5.3        | JN       | 1.0             | YES        | NV               |
| 1,3-Cyclohexadiene, 1-methyl-4-(1- | TIC          | 9.3               | JN              | ug/kg | 9.3        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| .beta.-Pinene                      | TIC          | 3.8               | JN              | ug/kg | 3.8        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AX0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-107

pH:

Sample Date: 11/17/2020

Sample Time: 09:20:00

% Moisture:

% Solids: 73.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX0        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                    | % Solids: 73.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX0        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                       | % Solids: 73.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                          | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          | 230               | B               | ug/kg | 230        | B        | 1.0             | YES        | NV               |
| Bicyclo[7.2.0]undec-4-ene,<br>4,11,11 | TIC          | 340               | JN              | ug/kg | 340        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX0        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                              | % Solids: 73.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 18                | J               | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 19                | J               | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 7.5               |                 | ug/kg | 7.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 8.7               |                 | ug/kg | 8.7        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 8.9               |                 | ug/kg | 8.9        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX0        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 73.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 9.1               | J               | ug/kg | 9.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.5               |                 | ug/kg | 6.5        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.4               | U               | ug/kg | 6.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AX1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-108

pH:

Sample Date: 11/17/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 73.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                    | % Solids: 73.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.56              | J               | ug/kg | 0.56       | J        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                       | % Solids: 73.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-4,7-di | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                              | % Solids: 73.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.1               | U               | ug/kg | 9.1        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 8.4               |                 | ug/kg | 8.4        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 15                | J               | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 15                | J               | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 6.3               |                 | ug/kg | 6.3        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 7.4               |                 | ug/kg | 7.4        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 73.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.7               | J               | ug/kg | 5.7        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.6               | U               | ug/kg | 5.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AX4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-111

pH:

Sample Date: 11/17/2020

Sample Time: 11:05:00

% Moisture:

% Solids: 76.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX4        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                    | % Solids: 76.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 0.23              | J               | ug/kg | 0.23       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.74              | J               | ug/kg | 0.74       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.55              | J               | ug/kg | 0.55       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX4        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                       | % Solids: 76.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX4        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                              | % Solids: 76.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.1               |                 | ug/kg | 6.1        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 0.87              | J               | ug/kg | 0.87       | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 25                | J               | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 23                | J               | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 29                |                 | ug/kg | 29         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 9.5               |                 | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX4        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                           | % Solids: 76.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 7.6               | J               | ug/kg | 7.6        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               |                 | ug/kg | 6.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.5               | U               | ug/kg | 6.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AX5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-112

pH:

Sample Date: 11/17/2020

Sample Time: 11:45:00

% Moisture:

% Solids: 72.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX5        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                    | % Solids: 72.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX5        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                       | % Solids: 72.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| E-15-Heptadecenal          | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX5        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                              | % Solids: 72.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 11                | J               | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 12                | J               | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 6.0               |                 | ug/kg | 6.0        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX5        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                           | % Solids: 72.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.7               | U               | ug/kg | 6.4        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AY2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-118

pH:

Sample Date: 11/17/2020

Sample Time: 13:45:00

% Moisture:

% Solids: 72.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY2        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                    | % Solids: 72.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.48              | J               | ug/kg | 0.48       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.46              | J               | ug/kg | 0.46       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.53              | J               | ug/kg | 0.53       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.35              | J               | ug/kg | 0.35       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY2        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                       | % Solids: 72.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                           | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                                 | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate             | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                   | Target       | 61                | J               | ug/kg | 61         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                         | Target       | 53                | J               | ug/kg | 53         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                             | TIC          | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | NV               |
| unknown-02                             | TIC          | 420               | J               | ug/kg | 420        | J        | 1.0             | YES        | NV               |
| unknown-03                             | TIC          | 1000              | J               | ug/kg | 1000       | J        | 1.0             | YES        | NV               |
| Total Alkanes                          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 2-Phenanthrenol,<br>4b,5,6,7,8,8a,9,1  | TIC          | 1300              | JN              | ug/kg | 1300       | JN       | 1.0             | YES        | NV               |
| Podocarpa-6,8,11,13-tetraen-12-<br>ol, | TIC          | 1200              | JN              | ug/kg | 1200       | JN       | 1.0             | YES        | NV               |
| 2,4,7,9-Tetramethyl-5-decyn-<br>4,7-di | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY2        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                              | % Solids: 72.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 7.1               |                 | ug/kg | 7.1        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 68                |                 | ug/kg | 68         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 70                |                 | ug/kg | 70         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 45                | J               | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 41                | J               | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 41                |                 | ug/kg | 41         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 7.1               |                 | ug/kg | 7.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY2        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                           | % Solids: 72.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | J               | ug/kg | 11         | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 8.7               |                 | ug/kg | 8.7        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.2               | U               | ug/kg | 7.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Thujone                               | TIC          | 12                | JN              | ug/kg | 12         | JN       | 1.0             | YES        | NV               |
| Bicyclo[2.2.1]heptan-2-one,<br>1,3,3- | TIC          | 11                | JN              | ug/kg | 11         | JN       | 1.0             | YES        | NV               |
| Ethanol                               | TIC          | 4.8               | JN              | ug/kg | 4.8        | JN       | 1.0             | YES        | NV               |
| Bicyclo[3.1.0]hexan-3-one, 4-methy    | TIC          | 54                | JN              | ug/kg | 54         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0AY6

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-123

pH:

Sample Date: 11/17/2020

Sample Time: 14:30:00

% Moisture:

% Solids: 74.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AY6        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                    | % Solids: 74.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.31              | J               | ug/kg | 0.31       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | U               | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | U               | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AY6        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                   | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                       | % Solids: 74.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Trifluoroacetic acid, pentadecyl e | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AY6        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                          | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                              | % Solids: 74.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 5.9               |                 | ug/kg | 5.9        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 9.1               | J               | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 9.5               | J               | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 8.2               |                 | ug/kg | 8.2        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AY6        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                           | % Solids: 74.5          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.2               | U               | ug/kg | 3.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B79

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-148

pH:

Sample Date: 11/12/2020

Sample Time: 13:15:00

% Moisture:

% Solids: 79.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B79        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148 | pH:                | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:                 |                    | % Solids: 79.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 3.4               |                 | ug/kg | 3.4        |          | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.53              | J               | ug/kg | 0.53       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.8               | J               | ug/kg | 1.8        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.0               | J               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B79        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:                 |                       | % Solids: 79.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 520               |                 | ug/kg | 520        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 720               |                 | ug/kg | 720        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 610               |                 | ug/kg | 610        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 43                | J               | ug/kg | 43         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 370               |                 | ug/kg | 370        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-        | TIC          | 88                | JN              | ug/kg | 88         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B79        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:                 |                              | % Solids: 79.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               |                 | ug/kg | 4.2        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.8               |                 | ug/kg | 4.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 630               | J               | ug/kg | 630        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 600               | J               | ug/kg | 600        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 320               |                 | ug/kg | 320        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 350               | J               | ug/kg | 350        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B79

**Lab Name:** Chemtech Consulting Group

|                        |                  |                         |                       |
|------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B79MS | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:              | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:            |                  | % Solids: 79.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 110               |                 | ug/kg | 110        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 100               |                 | ug/kg | 100        | P        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B79MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:            |                    | % Solids: 79.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 16                |                 | ug/kg | 16         | P        | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 26                |                 | ug/kg | 26         | P        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.2               | J               | ug/kg | 3.2        | JP       | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 22                | J               | ug/kg | 22         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | J               | ug/kg | 1.7        | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B79MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/12/2020

Sample Time: 13:15:00

% Moisture:

% Solids: 79.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 120               |                 | ug/kg | 120        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 110               |                 | ug/kg | 110        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B79MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:             |                    | % Solids: 79.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 15                |                 | ug/kg | 15         | P        | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 25                |                 | ug/kg | 25         | P        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.2               | J               | ug/kg | 3.2        | JP       | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 21                | J               | ug/kg | 21         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.9               | J               | ug/kg | 1.9        | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B80

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-149

pH:

Sample Date: 11/16/2020

Sample Time: 08:20:00

% Moisture:

% Solids: 71.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B80        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-149 | pH:                | Sample Date: 11/16/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                    | % Solids: 71.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.76              | J               | ug/kg | 0.76       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 3.2               | J               | ug/kg | 3.2        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.50              | J               | ug/kg | 0.50       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.63              | J               | ug/kg | 0.63       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 7.1               | J               | ug/kg | 7.1        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 5.2               | J               | ug/kg | 5.2        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B80        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-149 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                       | % Solids: 71.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 830               |                 | ug/kg | 830        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 690               |                 | ug/kg | 690        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 640               |                 | ug/kg | 640        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 9,10-Anthracenedione       | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B80        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-149 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                              | % Solids: 71.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.4               | J               | ug/kg | 3.4        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 8.7               |                 | ug/kg | 8.7        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 560               | J               | ug/kg | 560        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 540               | J               | ug/kg | 540        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 500               | J               | ug/kg | 500        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 340               |                 | ug/kg | 340        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 67                |                 | ug/kg | 67         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 260               |                 | ug/kg | 260        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B79

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B81        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:              | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                  | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 21                | J               | ug/kg | 21         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B81        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:                | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                    | % Solids: 73.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.46              | J               | ug/kg | 0.46       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B81        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                       | % Solids: 73.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 360               | J               | ug/kg | 360        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 82                | J               | ug/kg | 82         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B81        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                              | % Solids: 73.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 9.5               |                 | ug/kg | 9.5        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 150               |                 | ug/kg | 150        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 280               |                 | ug/kg | 280        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 260               |                 | ug/kg | 260        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 130               |                 | ug/kg | 130        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 160               |                 | ug/kg | 160        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 200               |                 | ug/kg | 200        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 76                |                 | ug/kg | 76         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 150               |                 | ug/kg | 150        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 110               |                 | ug/kg | 110        | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B82

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-151

pH:

Sample Date: 11/16/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 73.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 45                | U               | ug/kg | 45         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B82        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-151 | pH:                | Sample Date: 11/16/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                    | % Solids: 73.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 5.6               | J-              | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 5.1               | J               | ug/kg | 5.1        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.76              | J               | ug/kg | 0.76       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 0.24              | J               | ug/kg | 0.24       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.67              | J               | ug/kg | 0.67       | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 23                | J               | ug/kg | 23         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 34                | J               | ug/kg | 34         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B82        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-151 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                       | % Solids: 73.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 91                | U               | ug/kg | 91         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 49                | J               | ug/kg | 49         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 980               |                 | ug/kg | 980        |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 790               |                 | ug/kg | 790        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 410               |                 | ug/kg | 410        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 630               |                 | ug/kg | 630        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 420               |                 | ug/kg | 420        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 91                | J               | ug/kg | 91         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B82        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-151 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                              | % Solids: 73.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 7.2               |                 | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 700               | J               | ug/kg | 700        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 630               | J               | ug/kg | 630        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 340               |                 | ug/kg | 340        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 410               | J               | ug/kg | 410        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 520               | J               | ug/kg | 520        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 340               |                 | ug/kg | 340        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B83

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-152

pH:

Sample Date: 11/16/2020

Sample Time: 12:00:00

% Moisture:

% Solids: 72.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 45                | J               | ug/kg | 45         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B83        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-152 | pH:                | Sample Date: 11/16/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                    | % Solids: 72.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.5               | UJ              | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B83        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-152 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                       | % Solids: 72.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 450               | U               | ug/kg | 450        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B83        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-152 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                              | % Solids: 72.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.92              | J               | ug/kg | 0.92       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 6.6               |                 | ug/kg | 6.6        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 5.0               |                 | ug/kg | 5.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 3.5               | J               | ug/kg | 3.5        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.5               | U               | ug/kg | 4.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B84

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-153

pH:

Sample Date: 11/16/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 70.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 150               |                 | ug/kg | 150        |          | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B84        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-153 | pH:                | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                    | % Solids: 70.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.58              | J               | ug/kg | 0.58       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.89              | J               | ug/kg | 0.89       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 14                | J               | ug/kg | 14         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 12                | J               | ug/kg | 12         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B84        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-153 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                       | % Solids: 70.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 520               |                 | ug/kg | 520        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 890               |                 | ug/kg | 890        |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 920               |                 | ug/kg | 920        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 360               |                 | ug/kg | 360        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 780               |                 | ug/kg | 780        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 390               |                 | ug/kg | 390        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-02                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-            | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Purine-6(1H)-thione, 3,7-dimethyls | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene               | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B84        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-153 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                              | % Solids: 70.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.0               |                 | ug/kg | 7.0        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 420               | J               | ug/kg | 420        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 960               | J               | ug/kg | 960        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 690               | J               | ug/kg | 690        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 780               | J               | ug/kg | 780        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 970               | J               | ug/kg | 970        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 350               |                 | ug/kg | 350        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 590               | J               | ug/kg | 590        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 420               | J               | ug/kg | 420        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 400               | J               | ug/kg | 400        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B85

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-154

pH:

Sample Date: 11/16/2020

Sample Time: 09:55:00

% Moisture:

% Solids: 69.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B85        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-154 | pH:                | Sample Date: 11/16/2020 | Sample Time: 09:55:00 |
| % Moisture:                 |                    | % Solids: 69.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.93              | J               | ug/kg | 0.93       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 6.9               | J               | ug/kg | 6.9        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 4.1               | J               | ug/kg | 4.1        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B85        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-154 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 09:55:00 |
| % Moisture:                 |                       | % Solids: 69.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | UJ              | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 70                | J               | ug/kg | 70         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 860               |                 | ug/kg | 860        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 730               |                 | ug/kg | 730        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 490               |                 | ug/kg | 490        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 590               |                 | ug/kg | 590        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 780               |                 | ug/kg | 780        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B85        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-154 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 09:55:00 |
| % Moisture:                 |                              | % Solids: 69.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.3               | J               | ug/kg | 4.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 56                |                 | ug/kg | 56         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 740               | J               | ug/kg | 740        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 720               | J               | ug/kg | 720        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 450               | J               | ug/kg | 450        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 600               | J               | ug/kg | 600        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 780               | J               | ug/kg | 780        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 500               | J               | ug/kg | 500        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 360               |                 | ug/kg | 360        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 380               |                 | ug/kg | 380        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0B86

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-155

pH:

Sample Date: 11/16/2020

Sample Time: 09:25:00

% Moisture:

% Solids: 72.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B86        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-155 | pH:                | Sample Date: 11/16/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                    | % Solids: 72.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.95              | J               | ug/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.9               | J-              | ug/kg | 2.9        |          | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.28              | J               | ug/kg | 0.28       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.7               | J               | ug/kg | 2.7        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | UJ              | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.0               | J               | ug/kg | 4.0        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 4.7               | J               | ug/kg | 4.7        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B86        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-155 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                       | % Solids: 72.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 92                | U               | ug/kg | 92         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Metacetamol                | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B86        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-155 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                              | % Solids: 72.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.5               | J               | ug/kg | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.2               | U               | ug/kg | 9.2        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 89                |                 | ug/kg | 89         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 68                |                 | ug/kg | 68         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 79                |                 | ug/kg | 79         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 85                |                 | ug/kg | 85         | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 66                |                 | ug/kg | 66         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 37                |                 | ug/kg | 37         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B79

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B90        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:              | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                  | % Solids: 72.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 12                | J               | ug/kg | 12         | JP       | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B90        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:                | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                    | % Solids: 72.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.57              | J               | ug/kg | 0.57       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.69              | J               | ug/kg | 0.69       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.8               | J               | ug/kg | 2.8        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

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Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B90        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                       | % Solids: 72.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 66                | J               | ug/kg | 66         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 3400              |                 | ug/kg | 3400       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 3000              |                 | ug/kg | 3000       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 2200              |                 | ug/kg | 2200       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 850               |                 | ug/kg | 850        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 830               |                 | ug/kg | 830        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 780               |                 | ug/kg | 780        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4H-Cyclopenta[def]phenanthrene      | TIC          | 530               | JN              | ug/kg | 530        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene                | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene                | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one          | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                    | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Anthracene, 1-methyl-               | TIC          | 430               | JN              | ug/kg | 430        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-             | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[1]phenanthrene, 1a,9b | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| Pyrene, 4-methyl-                   | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-         | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrene         | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-             | TIC          | 95                | JN              | ug/kg | 95         | JN       | 1.0             | YES        | NV               |
| 6H-Benz[de]anthracen-6-one          | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Isothiazol-5-amine, 4-bromo-3-chlo  | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 1,2,4,8-Tetramethylbicyclo[6.3.0]u  | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene                      | TIC          | 1000              | JN              | ug/kg | 1000       | JN       | 1.0             | YES        | NV               |
| Dibenzothiophene                    | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione                | TIC          | 550               | JN              | ug/kg | 550        | JN       | 1.0             | YES        | NV               |
| unknown-03                          | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| unknown-02                          | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| unknown-01                          | TIC          | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene     | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B90        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                              | % Solids: 72.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 62                |                 | ug/kg | 62         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 72                |                 | ug/kg | 72         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 61                |                 | ug/kg | 61         | D        | 5.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1500              | J               | ug/kg | 1500       | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 2800              | J               | ug/kg | 2800       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 2500              | J               | ug/kg | 2500       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1300              | J               | ug/kg | 1300       | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 1600              | J               | ug/kg | 1600       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1700              | J               | ug/kg | 1700       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 690               | J               | ug/kg | 690        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 750               | J               | ug/kg | 750        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 770               | J               | ug/kg | 770        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B79

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0BF9        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:              | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                  | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 13                | J               | ug/kg | 13         | J        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BF9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:                | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                    | % Solids: 78.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.40              | J               | ug/kg | 0.40       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.33              | J               | ug/kg | 0.33       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.27              | J               | ug/kg | 0.27       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BF9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                       | % Solids: 78.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 80                | J               | ug/kg | 80         | J        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| .alpha.-Pinene                     | TIC          | 260               | JN              | ug/kg | 260        | JN       | 1.0             | YES        | NV               |
| Caryophyllene                      | TIC          | 540               | JN              | ug/kg | 540        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1,2-Benzenedicarboxylic acid, buty | TIC          | 330               | JN              | ug/kg | 330        | JN       | 1.0             | YES        | NV               |
| Cinnamyl cinnamate                 | TIC          | 1100              | JN              | ug/kg | 1100       | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BF9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                              | % Solids: 78.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 0.89              | J               | ug/kg | 0.89       | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.8               |                 | ug/kg | 4.8        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 0.98              | J               | ug/kg | 0.98       | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 7.2               | J               | ug/kg | 7.2        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 7.8               | J               | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 6.7               |                 | ug/kg | 6.7        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 3.8               | J               | ug/kg | 3.8        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0BG0

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-168-01

pH:

Sample Date: 11/16/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 76.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG0           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168-01 | pH:                | Sample Date: 11/16/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                    | % Solids: 76.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.45              | J               | ug/kg | 0.45       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | UJ              | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.54              | J               | ug/kg | 0.54       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.45              | J               | ug/kg | 0.45       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG0           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168-01 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                       | % Solids: 76.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 87                | U               | ug/kg | 87         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 81                | J               | ug/kg | 81         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                 | TIC          | 930               | J               | ug/kg | 930        | J        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Pyridine, 4-propyl-        | TIC          | 97                | JN              | ug/kg | 97         | JN       | 1.0             | YES        | NV               |
| Caryophyllene              | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG0           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168-01 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                              | % Solids: 76.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 0.95              | J               | ug/kg | 0.95       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.7               | U               | ug/kg | 8.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 7.9               | J               | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 8.1               | J               | ug/kg | 8.1        |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 7.3               |                 | ug/kg | 7.3        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 4.3               |                 | ug/kg | 4.3        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 1.3               | J               | ug/kg | 1.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

Sample Number: C0BG2

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-168-01

pH:

Sample Date: 11/16/2020

Sample Time: 08:00:00

% Moisture:

% Solids: 78.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG2           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                    | % Solids: 78.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | UJ              | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.20              | J               | ug/kg | 0.20       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.9               | J               | ug/kg | 1.9        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | UJ              | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.5               | J               | ug/kg | 2.5        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | J               | ug/kg | 2.2        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | UJ              | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG2           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                       | % Solids: 78.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 85                | J               | ug/kg | 85         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 74                | J               | ug/kg | 74         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 78                | J               | ug/kg | 78         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 68                | J               | ug/kg | 68         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG2           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                              | % Solids: 78.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.6               |                 | ug/kg | 5.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 5.8               |                 | ug/kg | 5.8        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 8.1               |                 | ug/kg | 8.1        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 65                |                 | ug/kg | 65         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 44                | J               | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 33                | J               | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 38                |                 | ug/kg | 38         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG2           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                           | % Solids: 78.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK52 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS52 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.4               | JP              | ug/kg | 1.4        | JP       | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.1               | J               | ug/kg | 3.1        | J        | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.2               | J               | ug/kg | 3.2        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.0               | JP              | ug/kg | 3.0        | JP       | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK73 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK74 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | UJ              | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | UJ              | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK05 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK06 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK07 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.9               | J               | ug/kg | 4.9        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK08 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.66              | J               | ug/kg | 0.66       | J        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.8               | J               | ug/kg | 4.8        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B79

Lab Name: Chemtech Consulting Group

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 3/10/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AW3 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #0221027





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** March 9, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOAW3

### Overview

This data package consisted of nineteen (19) soil samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 7, 2020.

Rinsate blank MCOBG3 (from SDG MCOB84) was associated with samples in this SDG and used in the evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Matrix spike, serial dilution and blank contamination issues required qualification of sample data.

### Minor Problems

The ICP-MS matrix spike recovery was low (<75%) for silver (Ag) in sample MCOAY0. The post-digestion spike recovery was greater than 75%. The detected concentration for Ag is estimated in this sample and has been qualified "J".

The percent difference (%D) in the ICP-AES serial dilution analysis was outside the control limit (>10%) for Fe in sample MCOAY0. The detected concentration for Fe is estimated in this sample and has been qualified "J".

Laboratory instrumentation reported a negative value for selenium (Se) greater than the absolute value of the Method Detection Limit (MDL) in a blank analysis. Quantitation limits for Se are estimated and have been qualified "UJ".

### **Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb) has been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL in associated samples have been reported at the CRQL and qualified "U".

Rinsate blank MCOBG3 reported concentrations for manganese (Mn) and zinc (Zn) less than the CRQLs. Detected concentrations for these analytes in associated field samples were greater than the CRQLs and not qualified based on these findings.

Target analyte Hg matrix spike, laboratory duplicate, ICP-MS serial dilution, and Laboratory Control Sample analyses were within control limits.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at two-fold (2X) dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)                                 | Analyte(s)     |
|---|----------------|
| MCOB31                                    | Lead (Pb)      |
| MCOAX4, MCOAX5, MCOAY0,<br>MCOB42, MCOBA2 | Manganese (Mn) |

Sample calculation checks were performed on sample MCOAW3. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: LCS709 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.0              |                 | mg/kg | 39.0       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1090              |                 | mg/kg | 1090       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 993               |                 | mg/kg | 993        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 979               |                 | mg/kg | 979        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 997               |                 | mg/kg | 997        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS735 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.89              |                 | mg/kg | 0.89       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.94              |                 | mg/kg | 0.94       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                               | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.40              |                 | mg/kg | 0.40       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                           | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8970              |                 | mg/kg | 8970       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2030              |                 | mg/kg | 2030       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17300             |                 | mg/kg | 17300      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1490              |                 | mg/kg | 1490       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 516               | J               | mg/kg | 516        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 661               | U               | mg/kg | 661        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-100 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                          | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.4               |                 | mg/kg | 3.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 109               |                 | mg/kg | 109        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.8              |                 | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 55.1              |                 | mg/kg | 55.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 216               |                 | mg/kg | 216        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 227               |                 | mg/kg | 227        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.6               |                 | mg/kg | 1.6        | *        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.1              |                 | mg/kg | 21.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 370               |                 | mg/kg | 370        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                               | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.062      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9880              |                 | mg/kg | 9880       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1150              |                 | mg/kg | 1150       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19900             |                 | mg/kg | 19900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1870              |                 | mg/kg | 1870       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 808               |                 | mg/kg | 808        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 655               | U               | mg/kg | 655        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-107 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                          | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.5               |                 | mg/kg | 2.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.40              | J               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 8.2               |                 | mg/kg | 8.2        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.6              |                 | mg/kg | 10.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 61.5              |                 | mg/kg | 61.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 240               |                 | mg/kg | 240        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | U               | mg/kg | 0.63       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 141               |                 | mg/kg | 141        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                               | % Solids: 73.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | U               | mg/kg | 0.055      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 73.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11600             |                 | mg/kg | 11600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2190              |                 | mg/kg | 2190       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21700             |                 | mg/kg | 21700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2000              |                 | mg/kg | 2000       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 866               |                 | mg/kg | 866        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 669               | U               | mg/kg | 669        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-108 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                          | % Solids: 73.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 36.7              |                 | mg/kg | 36.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 43.1              |                 | mg/kg | 43.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 252               |                 | mg/kg | 252        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | U               | mg/kg | 0.66       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.2              |                 | mg/kg | 18.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 65.0              |                 | mg/kg | 65.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                               | % Solids: 75.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.076      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX4       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                           | % Solids: 75.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10500             |                 | mg/kg | 10500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 941               |                 | mg/kg | 941        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16600             |                 | mg/kg | 16600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1560              |                 | mg/kg | 1560       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 491               | J               | mg/kg | 491        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 643               | U               | mg/kg | 643        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-111 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                          | % Solids: 75.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.1              |                 | mg/kg | 42.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 7.2               |                 | mg/kg | 7.2        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 39.8              |                 | mg/kg | 39.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 352               |                 | mg/kg | 352        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 15.0              |                 | mg/kg | 15.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 32.4              |                 | mg/kg | 32.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                               | % Solids: 71.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.059      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                           | % Solids: 71.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11400             |                 | mg/kg | 11400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 615               | J               | mg/kg | 615        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 18700             |                 | mg/kg | 18700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1680              |                 | mg/kg | 1680       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 580               | J               | mg/kg | 580        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 688               | U               | mg/kg | 688        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-112 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                          | % Solids: 71.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.2              |                 | mg/kg | 37.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | J               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 33.8              |                 | mg/kg | 33.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 407               |                 | mg/kg | 407        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.2              |                 | mg/kg | 18.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 43.9              |                 | mg/kg | 43.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                               | % Solids: 67.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | U               | mg/kg | 0.049      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                           | % Solids: 67.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14500             |                 | mg/kg | 14500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1570              |                 | mg/kg | 1570       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 25300             | J               | mg/kg | 25300      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3000              |                 | mg/kg | 3000       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1250              |                 | mg/kg | 1250       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 703               | U               | mg/kg | 703        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                          | % Solids: 67.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.67       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 35.3              |                 | mg/kg | 35.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 19.1              |                 | mg/kg | 19.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 543               |                 | mg/kg | 543        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | UJ              | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.70              | UJ              | mg/kg | 0.70       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.8              |                 | mg/kg | 24.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 48.0              |                 | mg/kg | 48.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

Sample Number: MC0AY0A

Method: Metals by ICP-MS

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 67.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Silver       | Spike        | 1.3               |                 | mg/kg | 1.3        | *        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

Sample Number: MC0AY0D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 67.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.042             | J               | mg/kg | 0.042      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

Sample Number: MC0AY0D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 67.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14500             |                 | mg/kg | 14500      |          | 1               | YES        | NV               |
| Calcium      | Target       | 1570              |                 | mg/kg | 1570       |          | 1               | YES        | NV               |
| Iron         | Target       | 25300             |                 | mg/kg | 25300      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 3010              |                 | mg/kg | 3010       |          | 1               | YES        | NV               |
| Potassium    | Target       | 1210              |                 | mg/kg | 1210       |          | 1               | YES        | NV               |
| Sodium       | Target       | 703               | U               | mg/kg | 703        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY0D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                          | % Solids: 67.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | NV               |
| Barium       | Target       | 34.9              |                 | mg/kg | 34.9       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | NV               |
| Copper       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | NV               |
| Lead         | Target       | 19.1              |                 | mg/kg | 19.1       |          | 1               | YES        | NV               |
| Manganese    | Target       | 529               |                 | mg/kg | 529        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 24.4              |                 | mg/kg | 24.4       |          | 1               | YES        | NV               |
| Zinc         | Target       | 47.3              |                 | mg/kg | 47.3       |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AY0L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 67.1 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15200             |                 | mg/kg | 15200      |          | 5               | YES        | NV               |
| Calcium      | Target       | 1710              | J               | mg/kg | 1710       | J        | 5               | YES        | NV               |
| Iron         | Target       | 28600             |                 | mg/kg | 28600      | X*       | 5               | YES        | NV               |
| Magnesium    | Target       | 3240              | J               | mg/kg | 3240       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 1200              | J               | mg/kg | 1200       | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3510              | U               | mg/kg | 3510       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AY0L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 67.1 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.9               | J               | mg/kg | 1.9        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 2.0               | J               | mg/kg | 2.0        | J        | 5               | YES        | NV               |
| Barium       | Target       | 37.8              |                 | mg/kg | 37.8       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 10.0              |                 | mg/kg | 10.0       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 5               | YES        | NV               |
| Copper       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 5               | YES        | NV               |
| Lead         | Target       | 19.5              |                 | mg/kg | 19.5       |          | 5               | YES        | NV               |
| Manganese    | Target       | 513               |                 | mg/kg | 513        | D        | 10              | YES        | NV               |
| Nickel       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 5               | YES        | NV               |
| Selenium     | Target       | 17.4              | U               | mg/kg | 17.4       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 24.0              |                 | mg/kg | 24.0       |          | 5               | YES        | NV               |
| Zinc         | Target       | 46.7              |                 | mg/kg | 46.7       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

Sample Number: MC0AY0S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/17/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 67.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.61              |                 | mg/kg | 0.61       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY0S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                          | % Solids: 67.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.7              |                 | mg/kg | 11.7       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 6.8               |                 | mg/kg | 6.8        |          | 1               | YES        | NV               |
| Barium       | Spike        | 267               |                 | mg/kg | 267        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 37.3              |                 | mg/kg | 37.3       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 71.9              |                 | mg/kg | 71.9       |          | 1               | YES        | NV               |
| Copper       | Spike        | 40.4              |                 | mg/kg | 40.4       |          | 1               | YES        | NV               |
| Lead         | Spike        | 22.0              |                 | mg/kg | 22.0       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 615               |                 | mg/kg | 615        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 70.2              |                 | mg/kg | 70.2       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 12.6              |                 | mg/kg | 12.6       |          | 1               | YES        | NV               |
| Silver       | Spike        | 5.1               |                 | mg/kg | 5.1        | *        | 1               | YES        | NV               |
| Thallium     | Spike        | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 96.4              |                 | mg/kg | 96.4       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 113               |                 | mg/kg | 113        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                               | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.094      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY2       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                           | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9890              |                 | mg/kg | 9890       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5800              |                 | mg/kg | 5800       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21000             |                 | mg/kg | 21000      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3090              |                 | mg/kg | 3090       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1050              |                 | mg/kg | 1050       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 648               | U               | mg/kg | 648        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-118 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                          | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.3              |                 | mg/kg | 43.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 26.9              |                 | mg/kg | 26.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 76.7              |                 | mg/kg | 76.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 318               |                 | mg/kg | 318        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.25              | J               | mg/kg | 0.25       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.0              |                 | mg/kg | 18.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 63.2              |                 | mg/kg | 63.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                               | % Solids: 75.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.054      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY6       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                           | % Solids: 75.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11000             |                 | mg/kg | 11000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 936               |                 | mg/kg | 936        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21100             |                 | mg/kg | 21100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2080              |                 | mg/kg | 2080       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 876               |                 | mg/kg | 876        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 647               | U               | mg/kg | 647        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-123 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                          | % Solids: 75.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.5              |                 | mg/kg | 32.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 28.1              |                 | mg/kg | 28.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 242               |                 | mg/kg | 242        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | U               | mg/kg | 0.63       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.3              |                 | mg/kg | 20.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 36.6              |                 | mg/kg | 36.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B31       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-100 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                               | % Solids: 69.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.47              |                 | mg/kg | 0.47       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B31       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-100 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                           | % Solids: 69.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8930              |                 | mg/kg | 8930       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5140              |                 | mg/kg | 5140       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18000             |                 | mg/kg | 18000      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2120              |                 | mg/kg | 2120       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 609               | J               | mg/kg | 609        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 696               | U               | mg/kg | 696        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B31       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-100 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                          | % Solids: 69.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 126               |                 | mg/kg | 126        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 32.0              |                 | mg/kg | 32.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 80.9              |                 | mg/kg | 80.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 518               |                 | mg/kg | 518        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 278               |                 | mg/kg | 278        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.6               | UJ              | mg/kg | 3.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 2.9               |                 | mg/kg | 2.9        | *        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.72              | U               | mg/kg | 0.72       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.0              |                 | mg/kg | 24.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 335               |                 | mg/kg | 335        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B38       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-107 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                               | % Solids: 72.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.092      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B38       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-107 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                           | % Solids: 72.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1810              |                 | mg/kg | 1810       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20400             |                 | mg/kg | 20400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2010              |                 | mg/kg | 2010       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 835               |                 | mg/kg | 835        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 667               | U               | mg/kg | 667        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B38       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-107 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                          | % Solids: 72.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.70       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.0              |                 | mg/kg | 38.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.9              |                 | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 55.2              |                 | mg/kg | 55.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 258               |                 | mg/kg | 258        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | U               | mg/kg | 0.66       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.7              |                 | mg/kg | 22.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 402               |                 | mg/kg | 402        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B39       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-108 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                               | % Solids: 74.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.066      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B39       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-108 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                           | % Solids: 74.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9740              |                 | mg/kg | 9740       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4540              |                 | mg/kg | 4540       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19500             |                 | mg/kg | 19500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2300              |                 | mg/kg | 2300       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 944               |                 | mg/kg | 944        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 661               | U               | mg/kg | 661        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B39       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-108 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                          | % Solids: 74.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 33.8              |                 | mg/kg | 33.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.0              |                 | mg/kg | 13.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.1              |                 | mg/kg | 18.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 51.8              |                 | mg/kg | 51.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 199               |                 | mg/kg | 199        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | U               | mg/kg | 0.63       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 17.6              |                 | mg/kg | 17.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 61.7              |                 | mg/kg | 61.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B42       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-111 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                               | % Solids: 76.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.060      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B42       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-111 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                           | % Solids: 76.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10000             |                 | mg/kg | 10000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1230              |                 | mg/kg | 1230       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17400             |                 | mg/kg | 17400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1840              |                 | mg/kg | 1840       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 609               | J               | mg/kg | 609        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 641               | U               | mg/kg | 641        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B42       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-111 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                          | % Solids: 76.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.4              |                 | mg/kg | 41.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.24              | J               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.5              |                 | mg/kg | 13.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 40.3              |                 | mg/kg | 40.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 330               |                 | mg/kg | 330        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 66.5              |                 | mg/kg | 66.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B43       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-112 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                               | % Solids: 75.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B43       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-112 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                           | % Solids: 75.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10700             |                 | mg/kg | 10700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 842               |                 | mg/kg | 842        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19100             |                 | mg/kg | 19100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2010              |                 | mg/kg | 2010       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 676               |                 | mg/kg | 676        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 633               | U               | mg/kg | 633        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B43       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-112 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                          | % Solids: 75.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 33.0              |                 | mg/kg | 33.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 303               |                 | mg/kg | 303        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.2               |                 | mg/kg | 7.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | U               | mg/kg | 0.65       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 19.6              |                 | mg/kg | 19.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 48.2              |                 | mg/kg | 48.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B48       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                               | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.041      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B48       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                           | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3010              |                 | mg/kg | 3010       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20600             |                 | mg/kg | 20600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2440              |                 | mg/kg | 2440       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 895               |                 | mg/kg | 895        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 644               | U               | mg/kg | 644        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B48       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                          | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.4              |                 | mg/kg | 32.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.38              | J               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.32              | J               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 19.6              |                 | mg/kg | 19.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 25.2              |                 | mg/kg | 25.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 194               |                 | mg/kg | 194        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.12              | J               | mg/kg | 0.12       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.4              |                 | mg/kg | 16.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 114               |                 | mg/kg | 114        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B49       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                               | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B49       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                           | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 6790              |                 | mg/kg | 6790       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22700             |                 | mg/kg | 22700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4560              |                 | mg/kg | 4560       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 836               |                 | mg/kg | 836        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 638               | U               | mg/kg | 638        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B49       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-118 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                          | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.9              |                 | mg/kg | 37.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.83              |                 | mg/kg | 0.83       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.6              |                 | mg/kg | 10.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 59.8              |                 | mg/kg | 59.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 267               |                 | mg/kg | 267        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.16              | J               | mg/kg | 0.16       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 56.7              |                 | mg/kg | 56.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B54       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-123 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 14:35:00 |
| % Moisture:                 |                               | % Solids: 76.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.049      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

Sample Number: MC0B54

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-123

pH:

Sample Date: 11/17/2020

Sample Time: 14:35:00

% Moisture:

% Solids: 76.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11400             |                 | mg/kg | 11400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 647               |                 | mg/kg | 647        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22500             |                 | mg/kg | 22500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2020              |                 | mg/kg | 2020       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 799               |                 | mg/kg | 799        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 638               | U               | mg/kg | 638        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B54       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-123 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 14:35:00 |
| % Moisture:                 |                          | % Solids: 76.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 29.0              |                 | mg/kg | 29.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 29.6              |                 | mg/kg | 29.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 218               |                 | mg/kg | 218        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 17.9              |                 | mg/kg | 17.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 27.7              |                 | mg/kg | 27.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                               | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.018      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                           | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15300             |                 | mg/kg | 15300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1090              |                 | mg/kg | 1090       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23500             |                 | mg/kg | 23500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2200              |                 | mg/kg | 2200       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 797               |                 | mg/kg | 797        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 612               | U               | mg/kg | 612        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-100 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                          | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 25.1              |                 | mg/kg | 25.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 37.9              |                 | mg/kg | 37.9       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | U               | mg/kg | 0.55       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.0              |                 | mg/kg | 20.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 14.6              |                 | mg/kg | 14.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                               | % Solids: 80.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.034      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA2       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 80.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12900             |                 | mg/kg | 12900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 624               |                 | mg/kg | 624        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21300             |                 | mg/kg | 21300      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1950              |                 | mg/kg | 1950       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 791               |                 | mg/kg | 791        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 610               | U               | mg/kg | 610        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-107 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                          | % Solids: 80.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 39.6              |                 | mg/kg | 39.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.087             | J               | mg/kg | 0.087      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.4              |                 | mg/kg | 11.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 41.2              |                 | mg/kg | 41.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 320               |                 | mg/kg | 320        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.56              | U               | mg/kg | 0.56       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 30.2              |                 | mg/kg | 30.2       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                               | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.069      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11700             |                 | mg/kg | 11700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 824               |                 | mg/kg | 824        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20200             |                 | mg/kg | 20200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1890              |                 | mg/kg | 1890       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 654               |                 | mg/kg | 654        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 589               | U               | mg/kg | 589        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-108 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                          | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 36.9              |                 | mg/kg | 36.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.5               |                 | mg/kg | 9.5        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 34.3              |                 | mg/kg | 34.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 176               |                 | mg/kg | 176        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.6              |                 | mg/kg | 18.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 27.0              |                 | mg/kg | 27.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW3

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS709 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS735 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.32              | J               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.59             | J               | mg/kg | -0.59      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | -0.36             | J               | mg/kg | -0.36      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL43 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.018             | J               | mg/kg | 0.018      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW3

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 12/17/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink, appearing to read "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AW4 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220003







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 15, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOAW4

### Overview

This data package consisted of thirteen (13) soil samples, including two (2) field duplicate samples, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated November 25, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Internal standard, blank contamination and serial dilution issues required qualification of sample data.

### Minor Problems

The percent relative intensity (%RI) for internal standard scandium was outside the upper control limit (>125%) in the initial analyses of samples MCOAW8, MCOAX2, MCOAX6, MCOAX7, MCOB40 and MCOB44. These samples were reanalyzed at two-fold (2X) dilutions with similar results. Associated analyte vanadium (V) was reported from the initial analyses, is estimated and has been qualified "J" in affected samples.

The percent difference (%D) in the ICP-MS serial dilution analysis was outside the control limit (>10%) for barium (Ba) in sample MCOAW8. The detected concentration for Ba is estimated in this sample and has been qualified "J".

### **Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb), beryllium (Be), cadmium (Cd), and silver (Ag) have been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL in associated samples have been reported at the CRQL and qualified "U".

Matrix spike, laboratory duplicate, ICP-AES serial dilution, and Laboratory Control Sample analyses were within control limits.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)  | Analyte(s)     | Dilution |
|--|----------------|----------|
| MCOBE9   | Copper (Cu)    | 2X       |
| MCOAW7, MCOAW8, MCOAX2,<br>MCOB35, MCOB40, MCOBE9,<br>MCOBF0 | Manganese (Mn) | 2X       |

Results reported for field duplicate pair MCOB35/MCOBE9 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes except Ca, Cu, lead (Pb), Mg, and zinc (Zn). No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOAW7/MCOBF0 were comparable (within control limits of RPD or  $\pm$  CRQL) for all analytes except Pb. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on sample MCOAW4. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: LCS702

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 38.9              |                 | mg/kg | 38.9       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1080              |                 | mg/kg | 1080       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 998               |                 | mg/kg | 998        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 961               |                 | mg/kg | 961        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 996               |                 | mg/kg | 996        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS730 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.89              |                 | mg/kg | 0.89       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-101 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                               | % Solids: 81.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.033             | J               | mg/kg | 0.033      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0AW4

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-101

pH:

Sample Date: 11/10/2020

Sample Time: 08:55:00

% Moisture:

% Solids: 81.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 1800              |                 | mg/kg | 1800       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7370              |                 | mg/kg | 7370       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 3800              |                 | mg/kg | 3800       |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3370              |                 | mg/kg | 3370       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 190               | J               | mg/kg | 190        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 583               | U               | mg/kg | 583        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-101 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                          | % Solids: 81.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 19.3              |                 | mg/kg | 19.3       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 13.0              |                 | mg/kg | 13.0       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.54              | U               | mg/kg | 0.089      | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.54              | U               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.6              |                 | mg/kg | 12.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 28.5              |                 | mg/kg | 28.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 17.0              |                 | mg/kg | 17.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 97.3              |                 | mg/kg | 97.3       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | U               | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 68.2              |                 | mg/kg | 68.2       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                               | % Solids: 59.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 59.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9400              |                 | mg/kg | 9400       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7080              |                 | mg/kg | 7080       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16500             |                 | mg/kg | 16500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3150              |                 | mg/kg | 3150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 780               | J               | mg/kg | 780        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 799               | U               | mg/kg | 799        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                          | % Solids: 59.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.6               | U               | mg/kg | 0.76       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 60.4              |                 | mg/kg | 60.4       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.81              | U               | mg/kg | 0.72       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.81              | U               | mg/kg | 0.78       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.9              |                 | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 33.7              |                 | mg/kg | 33.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 85.9              |                 | mg/kg | 85.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 567               |                 | mg/kg | 567        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.1               | U               | mg/kg | 4.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.81              | U               | mg/kg | 0.81       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.81              | U               | mg/kg | 0.81       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 19.9              |                 | mg/kg | 19.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 102               |                 | mg/kg | 102        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                               | % Solids: 58.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.26              |                 | mg/kg | 0.26       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW8       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                           | % Solids: 58.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 12600             |                 | mg/kg | 12600      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19900             |                 | mg/kg | 19900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5960              |                 | mg/kg | 5960       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1360              |                 | mg/kg | 1360       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 830               | U               | mg/kg | 830        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-105 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                          | % Solids: 58.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.7               | U               | mg/kg | 0.96       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 76.5              | J               | mg/kg | 76.5       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.83              | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.83              | U               | mg/kg | 0.79       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.3              |                 | mg/kg | 26.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 42.2              |                 | mg/kg | 42.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 91.4              |                 | mg/kg | 91.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 476               |                 | mg/kg | 476        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.1               | U               | mg/kg | 4.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.83              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.83              | U               | mg/kg | 0.83       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.7              | J               | mg/kg | 22.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 180               |                 | mg/kg | 180        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0AW8D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:20:00

% Moisture:

% Solids: 58.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.26              |                 | mg/kg | 0.26       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW8D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:            |                           | % Solids: 58.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10700             |                 | mg/kg | 10700      |          | 1               | YES        | NV               |
| Calcium      | Target       | 12700             |                 | mg/kg | 12700      |          | 1               | YES        | NV               |
| Iron         | Target       | 20000             |                 | mg/kg | 20000      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 6030              |                 | mg/kg | 6030       |          | 1               | YES        | NV               |
| Potassium    | Target       | 1310              |                 | mg/kg | 1310       |          | 1               | YES        | NV               |
| Sodium       | Target       | 830               | U               | mg/kg | 830        | U        | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW8D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:            |                          | % Solids: 58.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.79              | J               | mg/kg | 0.79       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | NV               |
| Barium       | Target       | 78.1              |                 | mg/kg | 78.1       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.66              | J               | mg/kg | 0.66       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.83              |                 | mg/kg | 0.83       |          | 1               | YES        | NV               |
| Chromium     | Target       | 26.0              |                 | mg/kg | 26.0       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 8.2               |                 | mg/kg | 8.2        |          | 1               | YES        | NV               |
| Copper       | Target       | 42.1              |                 | mg/kg | 42.1       |          | 1               | YES        | NV               |
| Lead         | Target       | 93.3              |                 | mg/kg | 93.3       |          | 1               | YES        | NV               |
| Manganese    | Target       | 474               |                 | mg/kg | 474        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | NV               |
| Selenium     | Target       | 4.1               | U               | mg/kg | 4.1        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | NV               |
| Thallium     | Target       | 0.83              | U               | mg/kg | 0.83       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 23.6              | J               | mg/kg | 23.6       |          | 1               | YES        | NV               |
| Zinc         | Target       | 179               |                 | mg/kg | 179        |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AW8L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 58.5 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11200             |                 | mg/kg | 11200      |          | 5               | YES        | NV               |
| Calcium      | Target       | 13600             |                 | mg/kg | 13600      |          | 5               | YES        | NV               |
| Iron         | Target       | 21600             |                 | mg/kg | 21600      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 6450              |                 | mg/kg | 6450       |          | 5               | YES        | NV               |
| Potassium    | Target       | 1360              | J               | mg/kg | 1360       | J        | 5               | YES        | NV               |
| Sodium       | Target       | 4150              | U               | mg/kg | 4150       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AW8L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 58.5 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 8.3               | U               | mg/kg | 8.3        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 5.9               |                 | mg/kg | 5.9        |          | 5               | YES        | NV               |
| Barium       | Target       | 85.2              |                 | mg/kg | 85.2       | X*       | 5               | YES        | NV               |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 0.71              | J               | mg/kg | 0.71       | J        | 5               | YES        | NV               |
| Chromium     | Target       | 24.0              |                 | mg/kg | 24.0       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 5               | YES        | NV               |
| Copper       | Target       | 42.4              |                 | mg/kg | 42.4       |          | 5               | YES        | NV               |
| Lead         | Target       | 96.5              |                 | mg/kg | 96.5       |          | 5               | YES        | NV               |
| Manganese    | Target       | 459               |                 | mg/kg | 459        | D        | 10              | YES        | NV               |
| Nickel       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 5               | YES        | NV               |
| Selenium     | Target       | 20.7              | U               | mg/kg | 20.7       | U        | 5               | YES        | NV               |
| Silver       | Target       | 4.1               | U               | mg/kg | 4.1        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 4.1               | U               | mg/kg | 4.1        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 26.6              |                 | mg/kg | 26.6       |          | 5               | YES        | NV               |
| Zinc         | Target       | 179               |                 | mg/kg | 179        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0AW8S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:20:00

% Moisture:

% Solids: 58.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.91              |                 | mg/kg | 0.91       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW8S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/10/2020 | Sample Time: 11:20:00 |
| % Moisture:            |                          | % Solids: 58.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 15.8              |                 | mg/kg | 15.8       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 12.4              |                 | mg/kg | 12.4       |          | 1               | YES        | NV               |
| Barium       | Spike        | 399               |                 | mg/kg | 399        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 61.9              |                 | mg/kg | 61.9       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 95.7              |                 | mg/kg | 95.7       |          | 1               | YES        | NV               |
| Copper       | Spike        | 86.3              |                 | mg/kg | 86.3       |          | 1               | YES        | NV               |
| Lead         | Spike        | 97.5              |                 | mg/kg | 97.5       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 549               |                 | mg/kg | 549        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 99.3              |                 | mg/kg | 99.3       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 19.9              |                 | mg/kg | 19.9       |          | 1               | YES        | NV               |
| Silver       | Spike        | 6.8               |                 | mg/kg | 6.8        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 90.1              | J               | mg/kg | 90.1       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 277               |                 | mg/kg | 277        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0AX2

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-109

pH:

Sample Date: 11/10/2020

Sample Time: 12:55:00

% Moisture:

% Solids: 82.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0AX2

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-109

pH:

Sample Date: 11/10/2020

Sample Time: 12:55:00

% Moisture:

% Solids: 82.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9970              |                 | mg/kg | 9970       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2030              |                 | mg/kg | 2030       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21000             |                 | mg/kg | 21000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1960              |                 | mg/kg | 1960       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 663               |                 | mg/kg | 663        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 591               | U               | mg/kg | 591        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-109 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                          | % Solids: 82.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.64       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 68.6              |                 | mg/kg | 68.6       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.67              |                 | mg/kg | 0.67       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.72              |                 | mg/kg | 0.72       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.3              |                 | mg/kg | 21.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.2               |                 | mg/kg | 8.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 25.5              |                 | mg/kg | 25.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 126               |                 | mg/kg | 126        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 479               |                 | mg/kg | 479        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.5               |                 | mg/kg | 9.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.0              | J               | mg/kg | 22.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 142               |                 | mg/kg | 142        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                               | % Solids: 80.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX6       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                           | % Solids: 80.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 657               |                 | mg/kg | 657        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20400             |                 | mg/kg | 20400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2010              |                 | mg/kg | 2010       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 858               |                 | mg/kg | 858        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 616               | U               | mg/kg | 616        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-113 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                          | % Solids: 80.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 29.5              |                 | mg/kg | 29.5       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.61              | U               | mg/kg | 0.096      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.3              |                 | mg/kg | 19.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.8              |                 | mg/kg | 15.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 28.2              |                 | mg/kg | 28.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 135               |                 | mg/kg | 135        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.8               |                 | mg/kg | 8.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.6              | J               | mg/kg | 20.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 53.6              |                 | mg/kg | 53.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0AX7

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-114

pH:

Sample Date: 11/10/2020

Sample Time: 14:15:00

% Moisture:

% Solids: 79.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.050             | J               | mg/kg | 0.050      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                           | % Solids: 79.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11500             |                 | mg/kg | 11500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1850              |                 | mg/kg | 1850       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21900             |                 | mg/kg | 21900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2330              |                 | mg/kg | 2330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1010              |                 | mg/kg | 1010       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 593               | U               | mg/kg | 593        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-114 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                          | % Solids: 79.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.9              |                 | mg/kg | 42.9       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.4              |                 | mg/kg | 20.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.1              |                 | mg/kg | 14.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 31.5              |                 | mg/kg | 31.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 276               |                 | mg/kg | 276        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.7              | J               | mg/kg | 20.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 52.9              |                 | mg/kg | 52.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B32       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                               | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              |                 | mg/kg | 0.12       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B32       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                           | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 5360              |                 | mg/kg | 5360       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 6560              |                 | mg/kg | 6560       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3230              |                 | mg/kg | 3230       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 369               | J               | mg/kg | 369        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 668               | U               | mg/kg | 668        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B32       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-101 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                          | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.88       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 16.0              |                 | mg/kg | 16.0       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.1              |                 | mg/kg | 37.1       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | U               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.4              |                 | mg/kg | 18.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 43.0              |                 | mg/kg | 43.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 75.1              |                 | mg/kg | 75.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 148               |                 | mg/kg | 148        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 14.0              |                 | mg/kg | 14.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 145               |                 | mg/kg | 145        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B35       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                               | % Solids: 74.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B35       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                           | % Solids: 74.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7560              |                 | mg/kg | 7560       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7260              |                 | mg/kg | 7260       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 14200             |                 | mg/kg | 14200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3330              |                 | mg/kg | 3330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 505               | J               | mg/kg | 505        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 651               | U               | mg/kg | 651        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B35       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                          | % Solids: 74.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.9              |                 | mg/kg | 54.9       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.64              | U               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.64              | U               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.7              |                 | mg/kg | 14.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 44.6              |                 | mg/kg | 44.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.8              |                 | mg/kg | 50.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 364               |                 | mg/kg | 364        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 8.8               |                 | mg/kg | 8.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 18.8              |                 | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 91.9              |                 | mg/kg | 91.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B40       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-109 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                               | % Solids: 75.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.24              |                 | mg/kg | 0.24       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B40       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-109 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                           | % Solids: 75.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9380              |                 | mg/kg | 9380       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2730              |                 | mg/kg | 2730       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2040              |                 | mg/kg | 2040       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 567               | J               | mg/kg | 567        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 636               | U               | mg/kg | 636        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B40       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-109 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                          | % Solids: 75.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.69       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 65.9              |                 | mg/kg | 65.9       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.70              |                 | mg/kg | 0.70       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.71              |                 | mg/kg | 0.71       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.7              |                 | mg/kg | 22.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 27.2              |                 | mg/kg | 27.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 110               |                 | mg/kg | 110        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 414               |                 | mg/kg | 414        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.1              | J               | mg/kg | 22.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 150               |                 | mg/kg | 150        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B44       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-113 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                               | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B44       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-113 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                           | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9790              |                 | mg/kg | 9790       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2000              |                 | mg/kg | 2000       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2070              |                 | mg/kg | 2070       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 823               |                 | mg/kg | 823        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 634               | U               | mg/kg | 634        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B44       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-113 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                          | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.8              |                 | mg/kg | 43.8       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.65              | U               | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.65              | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.4              |                 | mg/kg | 18.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 23.2              |                 | mg/kg | 23.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.1              |                 | mg/kg | 50.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 245               |                 | mg/kg | 245        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.9              |                 | mg/kg | 11.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.7              | J               | mg/kg | 22.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 159               |                 | mg/kg | 159        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

Sample Number: MC0B45

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-114

pH:

Sample Date: 11/10/2020

Sample Time: 14:20:00

% Moisture:

% Solids: 76.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.045             | J               | mg/kg | 0.045      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B45       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-114 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 14:20:00 |
| % Moisture:                 |                           | % Solids: 76.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8380              |                 | mg/kg | 8380       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1980              |                 | mg/kg | 1980       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17700             |                 | mg/kg | 17700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1750              |                 | mg/kg | 1750       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 714               |                 | mg/kg | 714        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 634               | U               | mg/kg | 634        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B45       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-114 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 14:20:00 |
| % Moisture:                 |                          | % Solids: 76.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.2              |                 | mg/kg | 42.2       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.60              | U               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.6              |                 | mg/kg | 19.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 55.8              |                 | mg/kg | 55.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 30.4              |                 | mg/kg | 30.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 191               |                 | mg/kg | 191        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 17.8              |                 | mg/kg | 17.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 157               |                 | mg/kg | 157        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE9          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104-01 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                               | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE9          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104-01 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                           | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8370              |                 | mg/kg | 8370       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 13200             |                 | mg/kg | 13200      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15300             |                 | mg/kg | 15300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5930              |                 | mg/kg | 5930       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 541               | J               | mg/kg | 541        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 674               | U               | mg/kg | 674        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE9          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-104-01 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                          | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.62       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 59.6              |                 | mg/kg | 59.6       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              |                 | mg/kg | 0.61       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.8              |                 | mg/kg | 17.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 824               |                 | mg/kg | 824        | D        | 2               | YES        | S4VEM            |
| Lead         | Target       | 70.8              |                 | mg/kg | 70.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 406               |                 | mg/kg | 406        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.097      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.7              |                 | mg/kg | 20.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 161               |                 | mg/kg | 161        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                               | % Solids: 62.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF0          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                           | % Solids: 62.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7530              |                 | mg/kg | 7530       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7570              |                 | mg/kg | 7570       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 13400             |                 | mg/kg | 13400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2610              |                 | mg/kg | 2610       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 701               | J               | mg/kg | 701        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 757               | U               | mg/kg | 757        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-104-01 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                          | % Solids: 62.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 64.8              |                 | mg/kg | 64.8       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.70              |                 | mg/kg | 0.70       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.72              |                 | mg/kg | 0.72       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.0              |                 | mg/kg | 17.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.2               |                 | mg/kg | 7.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 38.6              |                 | mg/kg | 38.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 65.3              |                 | mg/kg | 65.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 560               |                 | mg/kg | 560        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.0              |                 | mg/kg | 20.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 99.1              |                 | mg/kg | 99.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS702 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW4

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS730 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.22              | J               | mg/kg | 0.22       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL38 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW4

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/26/2021  
SUBJECT: Region III Data QA Review  
FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AW6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #0121002







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Ed\Date:** January 25, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MC0AW6

### Overview

This data package consisted of nineteen (19) soil samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 28, 2020.

Rinsate blank MC0BH8 (from SDG MC0B89) were associated with samples in this SDG and used in the evaluation of this data.

### Summary

Internal standard issues required rejection and estimation of sample data. Serial dilution and blank contamination issues required estimation of sample data.

**Major Problem**

Percent relative intensities (RI) for internal standards terbium and holmium were outside the upper control limit (>125%) in the initial analysis of samples as noted below. These samples were reanalyzed at two-fold (2X) dilutions with %RI within control limits for all internal standards for all samples. However, results were reported from the initial analysis in these samples. The initial results are unusable and have been qualified "R" for the target analytes in these samples.

| Internal Standard | Associated Samples     | Associated Target Analytes |
|-------------------|------------------------|----------------------------|
| Terbium, Holmium  | MCOB28, MCOB60, MCOB78 | Thallium, Barium           |
| Terbium           | MCOB41                 | Thallium                   |
| Holmium           | MCOB57                 | Barium                     |

**Minor Problems**

Percent relative intensities for internal standards terbium and holmium were outside the upper control limit (>125%) in the initial analysis of sample MCOB30. This sample was reanalyzed at a two-fold (2X) dilution with similar results. Results were reported from the initial analysis in these samples. The detected concentration for associated analyte Ba is estimated and has been qualified "J". The quantitation limit for associated analyte thallium (Tl) is estimated and has been qualified "UJ".

| Internal Standard | Associated Sample | Associated Target Analytes |
|-------------------|-------------------|----------------------------|
| Terbium, Holmium  | MCOB30            | Thallium, Barium           |

The percent difference (%D) in the ICP-AES serial dilution analysis was outside the control limit (>10%) for Fe in sample MCOAW6. The detected concentration for Fe is estimated in this sample and has been qualified "J".

Laboratory instrumentation reported negative values for selenium (Se) and silver (Ag) greater than the absolute values of the Method Detection Limits (MDLs) in blank analyses. Laboratory instrumentation reported negative values for Hg greater than the absolute value of the MDL in blank analyses. Detected concentrations for these analytes less than the Contract Required Quantitation Limit (CRQL) were reported at the CRQL and qualified "UJ". Quantitation limits for Se and Ag are estimated and qualified "UJ".

**Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Antimony (Sb) has been detected in a laboratory blank associated with the samples in this SDG. Detected concentration for Sb less than the CRQL have been reported at the CRQL and qualified "U".

Rinsate blank MCOBH8 was free from contamination.

Target analyte Hg matrix spike, laboratory duplicate, ICP-MS serial dilution, and Laboratory Control Sample analyses were within control limits.

The matrix spike recovery was outside control limits for lead (Pb) in sample MCOAW6. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Concentrations for manganese (Mn) exceeded the calibration range in the initial analysis for samples MCOAX3, MCOAX8, MCOAY4, MCOAY9, MCOB21, MCOB28, MCOB30, MCOB41, MCOB46, MCOB52, MCOB57 and MCOB78. These samples were reanalyzed at two-fold (2X) dilutions in order to quantitate Mn within the calibration range. Results were reported from the dilutions.

Sample calculation checks were performed on sample MCOAW6. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

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Validation In order of descending precedence. Only one of these qualifiers may apply to any  
 Qualifiers result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: LCS717

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 37.2              |                 | mg/kg | 37.2       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1030              |                 | mg/kg | 1030       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 21.9              |                 | mg/kg | 21.9       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 929               |                 | mg/kg | 929        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 927               |                 | mg/kg | 927        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 944               |                 | mg/kg | 944        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS749 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.94              |                 | mg/kg | 0.94       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-103 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                               | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.081      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: MC0AW6

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-103

pH:

Sample Date: 12/02/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 73.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10900             |                 | mg/kg | 10900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1270              |                 | mg/kg | 1270       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20200             | J               | mg/kg | 20200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1850              |                 | mg/kg | 1850       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 609               | J               | mg/kg | 609        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 648               | U               | mg/kg | 648        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-103 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                          | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 50.6              |                 | mg/kg | 50.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.9              |                 | mg/kg | 18.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.1              |                 | mg/kg | 14.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 43.1              |                 | mg/kg | 43.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 271               |                 | mg/kg | 271        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | UJ              | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.2              |                 | mg/kg | 34.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 49.0              |                 | mg/kg | 49.0       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: MC0AW6D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 12/02/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 73.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.077             | J               | mg/kg | 0.077      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: MC0AW6D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 12/02/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 73.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10800             |                 | mg/kg | 10800      |          | 1               | YES        | NV               |
| Calcium      | Target       | 1270              |                 | mg/kg | 1270       |          | 1               | YES        | NV               |
| Iron         | Target       | 20100             |                 | mg/kg | 20100      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1840              |                 | mg/kg | 1840       |          | 1               | YES        | NV               |
| Potassium    | Target       | 558               | J               | mg/kg | 558        | J        | 1               | YES        | NV               |
| Sodium       | Target       | 648               | U               | mg/kg | 648        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW6D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:            |                          | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | NV               |
| Barium       | Target       | 50.9              |                 | mg/kg | 50.9       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 19.4              |                 | mg/kg | 19.4       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | NV               |
| Copper       | Target       | 14.6              |                 | mg/kg | 14.6       |          | 1               | YES        | NV               |
| Lead         | Target       | 43.4              |                 | mg/kg | 43.4       |          | 1               | YES        | NV               |
| Manganese    | Target       | 277               |                 | mg/kg | 277        |          | 1               | YES        | NV               |
| Nickel       | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 35.5              |                 | mg/kg | 35.5       |          | 1               | YES        | NV               |
| Zinc         | Target       | 49.4              |                 | mg/kg | 49.4       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0AW6L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 73.5 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11500             |                 | mg/kg | 11500      |          | 5               | YES        | NV               |
| Calcium      | Target       | 1380              | J               | mg/kg | 1380       | J        | 5               | YES        | NV               |
| Iron         | Target       | 22500             |                 | mg/kg | 22500      | X*       | 5               | YES        | NV               |
| Magnesium    | Target       | 2000              | J               | mg/kg | 2000       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 577               | J               | mg/kg | 577        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3240              | U               | mg/kg | 3240       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0AW6L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 73.5 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 6.5               | U               | mg/kg | 6.5        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 4.1               |                 | mg/kg | 4.1        |          | 5               | YES        | NV               |
| Barium       | Target       | 51.5              |                 | mg/kg | 51.5       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 18.6              |                 | mg/kg | 18.6       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 5               | YES        | NV               |
| Copper       | Target       | 14.5              |                 | mg/kg | 14.5       |          | 5               | YES        | NV               |
| Lead         | Target       | 44.9              |                 | mg/kg | 44.9       |          | 5               | YES        | NV               |
| Manganese    | Target       | 282               |                 | mg/kg | 282        |          | 5               | YES        | NV               |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 5               | YES        | NV               |
| Selenium     | Target       | 16.4              | U               | mg/kg | 16.4       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 32.5              |                 | mg/kg | 32.5       |          | 5               | YES        | NV               |
| Zinc         | Target       | 49.6              |                 | mg/kg | 49.6       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW6S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:            |                               | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.80              |                 | mg/kg | 0.80       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW6S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 12/02/2020 | Sample Time: 08:10:00 |
| % Moisture:            |                          | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 13.0              |                 | mg/kg | 13.0       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | NV               |
| Barium       | Spike        | 301               |                 | mg/kg | 301        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 47.0              |                 | mg/kg | 47.0       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 74.4              |                 | mg/kg | 74.4       |          | 1               | YES        | NV               |
| Copper       | Spike        | 50.5              |                 | mg/kg | 50.5       |          | 1               | YES        | NV               |
| Lead         | Spike        | 46.6              |                 | mg/kg | 46.6       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 349               |                 | mg/kg | 349        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 78.2              |                 | mg/kg | 78.2       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 14.3              |                 | mg/kg | 14.3       |          | 1               | YES        | NV               |
| Silver       | Spike        | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 106               |                 | mg/kg | 106        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 119               |                 | mg/kg | 119        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                               | % Solids: 74.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.065      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                           | % Solids: 74.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10500             |                 | mg/kg | 10500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5060              |                 | mg/kg | 5060       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20900             |                 | mg/kg | 20900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3220              |                 | mg/kg | 3220       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 542               | J               | mg/kg | 542        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 649               | U               | mg/kg | 649        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-110 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                          | % Solids: 74.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.71       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 66.8              |                 | mg/kg | 66.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.1              |                 | mg/kg | 22.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 25.4              |                 | mg/kg | 25.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 98.4              |                 | mg/kg | 98.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 406               |                 | mg/kg | 406        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 15.6              |                 | mg/kg | 15.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 0.63       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | UJ              | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 37.2              |                 | mg/kg | 37.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 169               |                 | mg/kg | 169        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                               | % Solids: 73.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.037      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX8       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 73.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11500             |                 | mg/kg | 11500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1170              |                 | mg/kg | 1170       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24700             |                 | mg/kg | 24700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2430              |                 | mg/kg | 2430       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1120              |                 | mg/kg | 1120       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 647               | U               | mg/kg | 647        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-115 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                          | % Solids: 73.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 53.8              |                 | mg/kg | 53.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.67              | U               | mg/kg | 0.67       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.9              |                 | mg/kg | 17.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 42.1              |                 | mg/kg | 42.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 337               |                 | mg/kg | 337        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 0.63       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.67              | UJ              | mg/kg | 0.67       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.67              | U               | mg/kg | 0.67       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 42.0              |                 | mg/kg | 42.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 189               |                 | mg/kg | 189        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-119 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 10:00:00 |
| % Moisture:                 |                               | % Solids: 73.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: MC0AY1

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-119

pH:

Sample Date: 12/02/2020

Sample Time: 10:00:00

% Moisture:

% Solids: 73.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 755               |                 | mg/kg | 755        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21900             |                 | mg/kg | 21900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2190              |                 | mg/kg | 2190       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 804               |                 | mg/kg | 804        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 656               | U               | mg/kg | 656        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-119 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 10:00:00 |
| % Moisture:                 |                          | % Solids: 73.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.4              |                 | mg/kg | 41.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.9              |                 | mg/kg | 26.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.3              |                 | mg/kg | 18.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 34.4              |                 | mg/kg | 34.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 227               |                 | mg/kg | 227        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.0              |                 | mg/kg | 13.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.069      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 39.4              |                 | mg/kg | 39.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 45.5              |                 | mg/kg | 45.5       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-121 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                               | % Solids: 75.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.097      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: MC0AY4

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-121

pH:

Sample Date: 12/02/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 75.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1660              |                 | mg/kg | 1660       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21700             |                 | mg/kg | 21700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1720              |                 | mg/kg | 1720       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 571               | J               | mg/kg | 571        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 639               | U               | mg/kg | 639        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-121 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                          | % Solids: 75.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 52.9              |                 | mg/kg | 52.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.54              | J               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 52.2              |                 | mg/kg | 52.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.6              |                 | mg/kg | 16.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 52.3              |                 | mg/kg | 52.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 305               |                 | mg/kg | 305        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 19.6              |                 | mg/kg | 19.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 37.3              |                 | mg/kg | 37.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 58.1              |                 | mg/kg | 58.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                               | % Solids: 78.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.056      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                           | % Solids: 78.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11000             |                 | mg/kg | 11000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21700             |                 | mg/kg | 21700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2530              |                 | mg/kg | 2530       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 745               |                 | mg/kg | 745        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 617               | U               | mg/kg | 617        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-126 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                          | % Solids: 78.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.9              |                 | mg/kg | 54.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.3              |                 | mg/kg | 20.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.1              |                 | mg/kg | 16.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 30.7              |                 | mg/kg | 30.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 429               |                 | mg/kg | 429        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.8              |                 | mg/kg | 13.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | UJ              | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.0              |                 | mg/kg | 36.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 56.5              |                 | mg/kg | 56.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                               | % Solids: 75.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

Sample Number: MC0AZ2

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-129

pH:

Sample Date: 12/02/2020

Sample Time: 11:30:00

% Moisture:

% Solids: 75.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10700             |                 | mg/kg | 10700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2730              |                 | mg/kg | 2730       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20900             |                 | mg/kg | 20900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2820              |                 | mg/kg | 2820       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 731               |                 | mg/kg | 731        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 626               | U               | mg/kg | 626        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-129 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                          | % Solids: 75.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 57.2              |                 | mg/kg | 57.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.2              |                 | mg/kg | 26.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 54.9              |                 | mg/kg | 54.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 85.0              |                 | mg/kg | 85.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 314               |                 | mg/kg | 314        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 17.8              |                 | mg/kg | 17.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | UJ              | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.9              |                 | mg/kg | 36.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 454               |                 | mg/kg | 454        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B10       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                               | % Solids: 73.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.054      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B10       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                           | % Solids: 73.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1150              |                 | mg/kg | 1150       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21300             |                 | mg/kg | 21300      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2370              |                 | mg/kg | 2370       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 591               | J               | mg/kg | 591        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 652               | U               | mg/kg | 652        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B10       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-147 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                          | % Solids: 73.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.22       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.3              |                 | mg/kg | 41.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.2              |                 | mg/kg | 19.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.4               |                 | mg/kg | 7.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.9              |                 | mg/kg | 13.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 30.2              |                 | mg/kg | 30.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 270               |                 | mg/kg | 270        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | UJ              | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.0              |                 | mg/kg | 36.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 57.4              |                 | mg/kg | 57.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B21       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                               | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B21       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                           | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9570              |                 | mg/kg | 9570       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1480              |                 | mg/kg | 1480       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21100             |                 | mg/kg | 21100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1990              |                 | mg/kg | 1990       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 857               |                 | mg/kg | 857        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 578               | U               | mg/kg | 578        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B21       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-158 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                          | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.1              |                 | mg/kg | 54.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.084             | J               | mg/kg | 0.084      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.1              |                 | mg/kg | 22.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.7               |                 | mg/kg | 7.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 19.3              |                 | mg/kg | 19.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 59.0              |                 | mg/kg | 59.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 323               |                 | mg/kg | 323        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 12.3              |                 | mg/kg | 12.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | UJ              | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 35.5              |                 | mg/kg | 35.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 56.0              |                 | mg/kg | 56.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B28       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                               | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B28       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                           | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12500             |                 | mg/kg | 12500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2460              |                 | mg/kg | 2460       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22700             |                 | mg/kg | 22700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2520              |                 | mg/kg | 2520       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 607               |                 | mg/kg | 607        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 605               | U               | mg/kg | 605        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B28       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-165 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                          | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 74.9              | R               | mg/kg | 74.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.75              |                 | mg/kg | 0.75       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.29              | J               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.0              |                 | mg/kg | 25.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.8               |                 | mg/kg | 8.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 32.1              |                 | mg/kg | 32.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 68.2              |                 | mg/kg | 68.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 461               |                 | mg/kg | 461        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | UJ              | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | R               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 42.3              |                 | mg/kg | 42.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 90.6              |                 | mg/kg | 90.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B30       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                               | % Solids: 79.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.26              |                 | mg/kg | 0.26       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B30       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                           | % Solids: 79.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8900              |                 | mg/kg | 8900       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 14400             |                 | mg/kg | 14400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1300              |                 | mg/kg | 1300       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 407               | J               | mg/kg | 407        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 606               | U               | mg/kg | 606        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B30       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-167 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                          | % Solids: 79.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.79       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 84.2              | J               | mg/kg | 84.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.26              | J               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.4              |                 | mg/kg | 16.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 26.1              |                 | mg/kg | 26.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 165               |                 | mg/kg | 165        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 380               |                 | mg/kg | 380        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | UJ              | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.8              |                 | mg/kg | 29.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 94.0              |                 | mg/kg | 94.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B34       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-103 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                               | % Solids: 74.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.099      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B34       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-103 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                           | % Solids: 74.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9680              |                 | mg/kg | 9680       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 999               |                 | mg/kg | 999        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19500             |                 | mg/kg | 19500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1780              |                 | mg/kg | 1780       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 584               | J               | mg/kg | 584        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 653               | U               | mg/kg | 653        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B34       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-103 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                          | % Solids: 74.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.70       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 56.7              |                 | mg/kg | 56.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.2              |                 | mg/kg | 22.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.4               |                 | mg/kg | 7.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 22.0              |                 | mg/kg | 22.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 75.4              |                 | mg/kg | 75.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 276               |                 | mg/kg | 276        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.0              |                 | mg/kg | 12.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | UJ              | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.67              | UJ              | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.67              | U               | mg/kg | 0.67       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.0              |                 | mg/kg | 41.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 69.4              |                 | mg/kg | 69.4       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B41       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-110 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                               | % Solids: 75.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.065      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B41       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-110 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                           | % Solids: 75.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2660              |                 | mg/kg | 2660       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19700             |                 | mg/kg | 19700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2530              |                 | mg/kg | 2530       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 930               |                 | mg/kg | 930        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 640               | U               | mg/kg | 640        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B41       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-110 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                          | % Solids: 75.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 70.0              |                 | mg/kg | 70.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.64              |                 | mg/kg | 0.64       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.8              |                 | mg/kg | 25.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 30.1              |                 | mg/kg | 30.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 61.4              |                 | mg/kg | 61.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 391               |                 | mg/kg | 391        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 15.3              |                 | mg/kg | 15.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | R               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 39.2              |                 | mg/kg | 39.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 114               |                 | mg/kg | 114        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B46       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-115 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                               | % Solids: 72.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.060      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B46       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-115 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                           | % Solids: 72.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1430              |                 | mg/kg | 1430       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21400             |                 | mg/kg | 21400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2400              |                 | mg/kg | 2400       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1090              |                 | mg/kg | 1090       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 662               | U               | mg/kg | 662        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B46       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-115 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                          | % Solids: 72.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 51.7              |                 | mg/kg | 51.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.24              | J               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 23.0              |                 | mg/kg | 23.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 25.3              |                 | mg/kg | 25.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.8              |                 | mg/kg | 50.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 391               |                 | mg/kg | 391        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 16.6              |                 | mg/kg | 16.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.3              |                 | mg/kg | 41.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 312               |                 | mg/kg | 312        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B50       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-119 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                               | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.31              |                 | mg/kg | 0.31       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B50       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-119 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                           | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9730              |                 | mg/kg | 9730       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1830              |                 | mg/kg | 1830       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20700             |                 | mg/kg | 20700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2130              |                 | mg/kg | 2130       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 842               |                 | mg/kg | 842        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 652               | U               | mg/kg | 652        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B50       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-119 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                          | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 61.2              |                 | mg/kg | 61.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 23.9              |                 | mg/kg | 23.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.3               |                 | mg/kg | 8.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 46.0              |                 | mg/kg | 46.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 47.8              |                 | mg/kg | 47.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 300               |                 | mg/kg | 300        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 14.4              |                 | mg/kg | 14.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | UJ              | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 37.6              |                 | mg/kg | 37.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 167               |                 | mg/kg | 167        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B52       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-121 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                               | % Solids: 73.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.091      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B52       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-121 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                           | % Solids: 73.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1740              |                 | mg/kg | 1740       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21200             |                 | mg/kg | 21200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1840              |                 | mg/kg | 1840       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 626               | J               | mg/kg | 626        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 658               | U               | mg/kg | 658        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B52       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-121 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                          | % Solids: 73.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 53.5              |                 | mg/kg | 53.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 20.5              |                 | mg/kg | 20.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 55.4              |                 | mg/kg | 55.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 359               |                 | mg/kg | 359        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | UJ              | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.8              |                 | mg/kg | 36.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 92.0              |                 | mg/kg | 92.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B57       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-126 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                               | % Solids: 70.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.048      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B57       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-126 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                           | % Solids: 70.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9670              |                 | mg/kg | 9670       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1990              |                 | mg/kg | 1990       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20400             |                 | mg/kg | 20400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2360              |                 | mg/kg | 2360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 661               | J               | mg/kg | 661        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 670               | U               | mg/kg | 670        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B57       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-126 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 11:05:00 |
| % Moisture:                 |                          | % Solids: 70.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 52.6              | R               | mg/kg | 52.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.24              | J               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.2              |                 | mg/kg | 21.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.5              |                 | mg/kg | 18.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 39.4              |                 | mg/kg | 39.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 372               |                 | mg/kg | 372        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.5              |                 | mg/kg | 13.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | UJ              | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 37.4              |                 | mg/kg | 37.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 101               |                 | mg/kg | 101        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B60       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-129 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                               | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B60       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-129 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                           | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12000             |                 | mg/kg | 12000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2630              |                 | mg/kg | 2630       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22600             |                 | mg/kg | 22600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2500              |                 | mg/kg | 2500       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1030              |                 | mg/kg | 1030       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 672               | U               | mg/kg | 672        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B60       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-129 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                          | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 67.5              | R               | mg/kg | 67.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.36              | J               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 30.2              |                 | mg/kg | 30.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.7               |                 | mg/kg | 7.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 46.5              |                 | mg/kg | 46.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 91.7              |                 | mg/kg | 91.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 309               |                 | mg/kg | 309        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 14.3              |                 | mg/kg | 14.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | R               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 38.8              |                 | mg/kg | 38.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 114               |                 | mg/kg | 114        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B78       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-147 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                               | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.017      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B78       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-147 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                           | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9700              |                 | mg/kg | 9700       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1480              |                 | mg/kg | 1480       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19800             |                 | mg/kg | 19800      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2260              |                 | mg/kg | 2260       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 846               |                 | mg/kg | 846        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 628               | U               | mg/kg | 628        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW6

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B78       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-147 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                          | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 56.2              | R               | mg/kg | 56.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.65              |                 | mg/kg | 0.65       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 31.5              |                 | mg/kg | 31.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 21.6              |                 | mg/kg | 21.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 47.4              |                 | mg/kg | 47.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 358               |                 | mg/kg | 358        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | UJ              | mg/kg | 0.067      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | R               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 46.8              |                 | mg/kg | 46.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 98.5              |                 | mg/kg | 98.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS717 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS749 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | -0.16             | J               | mg/kg | -0.16      | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | -0.071            | J               | mg/kg | -0.071     | J        | 1               | YES        | S4VEM            |
| Copper       | Target       | -0.15             | J               | mg/kg | -0.15      | J        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | -0.090            | J               | mg/kg | -0.090     | J        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.62             | J               | mg/kg | -0.62      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | -0.069            | J               | mg/kg | -0.069     | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | -0.35             | J               | mg/kg | -0.35      | J        | 1               | YES        | S4VEM            |
| Zinc         | Target       | -0.18             | J               | mg/kg | -0.18      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL53 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | -0.017            | J               | mg/kg | -0.017     | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW6

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 12/17/2020  
SUBJECT: Region III Data QA Review  
FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AW9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220010





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 16, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOAW9

### **Overview**

This data package consisted of sixteen (16) soil samples including two field duplicate samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated November 30, 2020 and additional information dated December 2, 2020.

### **Summary**

No data quality outliers or technical deficiencies were identified that would require rejection of sample results. Less significant data quality outliers were identified that resulted in estimation of sample results including but not limited to serial dilution as detailed below.

### **Minor Problems**

The percent difference (%D) for the ICP serial dilution analysis performed on sample MCOB11 was outside the control limit (%D >10) for iron (Fe) in ICP-AES analysis and for copper (Cu) in ICP-MS analysis. Detected concentrations for these analytes are estimated in this sample and have been qualified "J".

**Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb), beryllium (Be), cadmium (Cd), silver (Ag) and thallium (Tl) have been detected in laboratory blanks associated with samples in this SDG. Detected results for these analytes less than the CRQL have been reported at the CRQL and qualified "U".

Matrix spike, laboratory duplicate and Laboratory Control Sample (LCS) analyses were within control limits.

The Percent Relative Intensity (%RI) was outside the lower control limit for internal standard Rhodium in the initial analysis of ICP-MS sample MC0B73. The sample was reanalyzed at a 2x dilution and the internal standard %RI was within the control limit. Results for analytes associated with this internal standard in this sample have been reported from the dilution analysis. CRQLs are elevated for these analytes in this sample. No data were qualified based on this finding.

Manganese (Mn) in sample MC0BF6 exceeded the calibration range in the initial analysis. This sample was reanalyzed at a 2X dilution in order to quantitate this analyte within the calibration range. The result for this analyte is reported from the dilution.

Samples MC0BF6 and MC0BF7 are reported as field duplicate samples on the chain of custody (COC) record. However, field duplicate pairs to these samples are not identified. Comparison of results could not be made.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: LCS704

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 41.6              |                 | mg/kg | 41.6       |          | 1               | YES        | NV               |
| Calcium      | Spike        | 1140              |                 | mg/kg | 1140       |          | 1               | YES        | NV               |
| Iron         | Spike        | 23.3              |                 | mg/kg | 23.3       |          | 1               | YES        | NV               |
| Magnesium    | Spike        | 1050              |                 | mg/kg | 1050       |          | 1               | YES        | NV               |
| Potassium    | Spike        | 1010              |                 | mg/kg | 1010       |          | 1               | YES        | NV               |
| Sodium       | Spike        | 1040              |                 | mg/kg | 1040       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS732 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | NV               |
| Barium       | Spike        | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | NV               |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | NV               |
| Copper       | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | NV               |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | NV               |
| Manganese    | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | NV               |
| Nickel       | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | NV               |
| Silver       | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | NV               |
| Thallium     | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-106 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                               | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.089             | J               | mg/kg | 0.089      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0AW9

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-106

pH:

Sample Date: 11/12/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 74.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 5790              |                 | mg/kg | 5790       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3280              |                 | mg/kg | 3280       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 10900             |                 | mg/kg | 10900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1350              |                 | mg/kg | 1350       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 525               | J               | mg/kg | 525        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 656               | U               | mg/kg | 656        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-106 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                          | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 45.1              |                 | mg/kg | 45.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | U               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.61              | U               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.2              |                 | mg/kg | 16.2       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 41.0              |                 | mg/kg | 41.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 152               |                 | mg/kg | 152        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 15.0              |                 | mg/kg | 15.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 58.9              |                 | mg/kg | 58.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B01       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                               | % Solids: 79.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.068             | J               | mg/kg | 0.068      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B01       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                           | % Solids: 79.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8630              |                 | mg/kg | 8630       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1310              |                 | mg/kg | 1310       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16200             |                 | mg/kg | 16200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1690              |                 | mg/kg | 1690       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 721               |                 | mg/kg | 721        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 607               | U               | mg/kg | 607        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B01       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-138 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 09:15:00 |
| % Moisture:                 |                          | % Solids: 79.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.8              |                 | mg/kg | 41.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | U               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.5              |                 | mg/kg | 14.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.0              |                 | mg/kg | 16.0       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 38.9              |                 | mg/kg | 38.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 145               |                 | mg/kg | 145        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.6               |                 | mg/kg | 9.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.2              |                 | mg/kg | 23.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 56.9              |                 | mg/kg | 56.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B03

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-140

pH:

Sample Date: 11/12/2020

Sample Time: 10:05:00

% Moisture:

% Solids: 69.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B03       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-140 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                           | % Solids: 69.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8800              |                 | mg/kg | 8800       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2450              |                 | mg/kg | 2450       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15700             |                 | mg/kg | 15700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1780              |                 | mg/kg | 1780       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 586               | J               | mg/kg | 586        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 693               | U               | mg/kg | 693        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B03       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-140 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                          | % Solids: 69.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.74       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 12.9              |                 | mg/kg | 12.9       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.6              |                 | mg/kg | 41.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.72              | U               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.72              | U               | mg/kg | 0.69       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.8              |                 | mg/kg | 19.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 23.6              |                 | mg/kg | 23.6       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 64.4              |                 | mg/kg | 64.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 142               |                 | mg/kg | 142        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.6              |                 | mg/kg | 11.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.6               | U               | mg/kg | 3.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.72              | U               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.72              | U               | mg/kg | 0.72       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.2              |                 | mg/kg | 23.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 98.6              |                 | mg/kg | 98.6       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B05       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                               | % Solids: 71.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.090             | J               | mg/kg | 0.090      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B05       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                           | % Solids: 71.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9850              |                 | mg/kg | 9850       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1530              |                 | mg/kg | 1530       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20100             |                 | mg/kg | 20100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1840              |                 | mg/kg | 1840       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 833               |                 | mg/kg | 833        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 682               | U               | mg/kg | 682        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B05       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-142 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                          | % Solids: 71.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.91       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.5              |                 | mg/kg | 37.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.64              | U               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.64              | U               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.9              |                 | mg/kg | 16.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 50.1              |                 | mg/kg | 50.1       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 157               |                 | mg/kg | 157        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 141               |                 | mg/kg | 141        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.9              |                 | mg/kg | 11.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.087      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.6              |                 | mg/kg | 32.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 174               |                 | mg/kg | 174        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B07       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                               | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B07       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                           | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9030              |                 | mg/kg | 9030       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2780              |                 | mg/kg | 2780       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18400             |                 | mg/kg | 18400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2060              |                 | mg/kg | 2060       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1020              |                 | mg/kg | 1020       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 617               | U               | mg/kg | 617        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B07       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-144 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                          | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.88       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.2              |                 | mg/kg | 43.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.60              | U               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.81              |                 | mg/kg | 0.81       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.9              |                 | mg/kg | 19.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 25.2              |                 | mg/kg | 25.2       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 54.3              |                 | mg/kg | 54.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 225               |                 | mg/kg | 225        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.8              |                 | mg/kg | 11.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.098      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.080      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 26.4              |                 | mg/kg | 26.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 170               |                 | mg/kg | 170        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B08       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                               | % Solids: 72.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.077             | J               | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B08       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                           | % Solids: 72.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8970              |                 | mg/kg | 8970       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3230              |                 | mg/kg | 3230       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17400             |                 | mg/kg | 17400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1940              |                 | mg/kg | 1940       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 611               | J               | mg/kg | 611        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 672               | U               | mg/kg | 672        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B08       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-145 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                          | % Solids: 72.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.94       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.1              |                 | mg/kg | 42.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.64              | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.64              | U               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.4              |                 | mg/kg | 17.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 30.8              |                 | mg/kg | 30.8       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 65.3              |                 | mg/kg | 65.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 169               |                 | mg/kg | 169        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.5              |                 | mg/kg | 23.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 126               |                 | mg/kg | 126        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B11       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                               | % Solids: 79.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.050             | J               | mg/kg | 0.050      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B11       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                           | % Solids: 79.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9020              |                 | mg/kg | 9020       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1770              |                 | mg/kg | 1770       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17600             | J               | mg/kg | 17600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1920              |                 | mg/kg | 1920       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 571               | J               | mg/kg | 571        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 609               | U               | mg/kg | 609        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B11       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                          | % Solids: 79.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.93       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 44.5              |                 | mg/kg | 44.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | U               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.0              |                 | mg/kg | 21.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.5              | J               | mg/kg | 13.5       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 54.7              |                 | mg/kg | 54.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 202               |                 | mg/kg | 202        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.2              |                 | mg/kg | 27.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 53.2              |                 | mg/kg | 53.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B11D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/12/2020

Sample Time: 13:10:00

% Moisture:

% Solids: 79.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.051             | J               | mg/kg | 0.051      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B11D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:            |                           | % Solids: 79.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9420              |                 | mg/kg | 9420       |          | 1               | YES        | NV               |
| Calcium      | Target       | 1850              |                 | mg/kg | 1850       |          | 1               | YES        | NV               |
| Iron         | Target       | 18400             |                 | mg/kg | 18400      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 2010              |                 | mg/kg | 2010       |          | 1               | YES        | NV               |
| Potassium    | Target       | 550               | J               | mg/kg | 550        | J        | 1               | YES        | NV               |
| Sodium       | Target       | 609               | U               | mg/kg | 609        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B11D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:            |                          | % Solids: 79.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.83              | J               | mg/kg | 0.83       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | NV               |
| Barium       | Target       | 44.4              |                 | mg/kg | 44.4       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 19.7              |                 | mg/kg | 19.7       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | NV               |
| Copper       | Target       | 13.4              |                 | mg/kg | 13.4       |          | 1               | YES        | NV               |
| Lead         | Target       | 54.5              |                 | mg/kg | 54.5       |          | 1               | YES        | NV               |
| Manganese    | Target       | 194               |                 | mg/kg | 194        |          | 1               | YES        | NV               |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 26.9              |                 | mg/kg | 26.9       |          | 1               | YES        | NV               |
| Zinc         | Target       | 51.7              |                 | mg/kg | 51.7       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B11L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 79.0 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9710              |                 | mg/kg | 9710       |          | 5               | YES        | NV               |
| Calcium      | Target       | 1950              | J               | mg/kg | 1950       | J        | 5               | YES        | NV               |
| Iron         | Target       | 19600             |                 | mg/kg | 19600      | X*       | 5               | YES        | NV               |
| Magnesium    | Target       | 2090              | J               | mg/kg | 2090       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 562               | J               | mg/kg | 562        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3040              | U               | mg/kg | 3040       | U        | 5               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B11L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 79.0 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | J               | mg/kg | 1.4        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 4.1               |                 | mg/kg | 4.1        |          | 5               | YES        | NV               |
| Barium       | Target       | 49.5              |                 | mg/kg | 49.5       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 19.9              |                 | mg/kg | 19.9       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 5               | YES        | NV               |
| Copper       | Target       | 16.6              |                 | mg/kg | 16.6       | X*       | 5               | YES        | NV               |
| Lead         | Target       | 58.0              |                 | mg/kg | 58.0       |          | 5               | YES        | NV               |
| Manganese    | Target       | 195               |                 | mg/kg | 195        |          | 5               | YES        | NV               |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 5               | YES        | NV               |
| Selenium     | Target       | 15.5              | U               | mg/kg | 15.5       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 24.8              |                 | mg/kg | 24.8       |          | 5               | YES        | NV               |
| Zinc         | Target       | 55.1              |                 | mg/kg | 55.1       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B11S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/12/2020

Sample Time: 13:10:00

% Moisture:

% Solids: 79.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.67              |                 | mg/kg | 0.67       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B11S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:            |                          | % Solids: 79.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.4              |                 | mg/kg | 11.4       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | NV               |
| Barium       | Spike        | 263               |                 | mg/kg | 263        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 44.2              |                 | mg/kg | 44.2       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 66.4              |                 | mg/kg | 66.4       |          | 1               | YES        | NV               |
| Copper       | Spike        | 43.5              |                 | mg/kg | 43.5       |          | 1               | YES        | NV               |
| Lead         | Spike        | 57.0              |                 | mg/kg | 57.0       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 250               |                 | mg/kg | 250        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 69.8              |                 | mg/kg | 69.8       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | NV               |
| Silver       | Spike        | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 86.1              |                 | mg/kg | 86.1       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 114               |                 | mg/kg | 114        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B37

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-106

pH:

Sample Date: 11/12/2020

Sample Time: 08:30:00

% Moisture:

% Solids: 82.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.070             | J               | mg/kg | 0.070      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B37       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-106 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                           | % Solids: 82.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6020              |                 | mg/kg | 6020       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2700              |                 | mg/kg | 2700       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 11100             |                 | mg/kg | 11100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1230              |                 | mg/kg | 1230       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 630               |                 | mg/kg | 630        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 111               | J               | mg/kg | 111        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B37       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-106 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                          | % Solids: 82.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 55.9              |                 | mg/kg | 55.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.58              | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.1              |                 | mg/kg | 15.1       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 49.1              |                 | mg/kg | 49.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 175               |                 | mg/kg | 175        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.8              |                 | mg/kg | 10.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 13.0              |                 | mg/kg | 13.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 74.0              |                 | mg/kg | 74.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B69

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-138

pH:

Sample Date: 11/12/2020

Sample Time: 09:20:00

% Moisture:

% Solids: 76.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.054             | J               | mg/kg | 0.054      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B69       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-138 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 76.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9300              |                 | mg/kg | 9300       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2220              |                 | mg/kg | 2220       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16700             |                 | mg/kg | 16700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2010              |                 | mg/kg | 2010       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 893               |                 | mg/kg | 893        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 615               | U               | mg/kg | 615        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B69       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-138 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                          | % Solids: 76.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.9              |                 | mg/kg | 42.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.65              | U               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.65              | U               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.4              |                 | mg/kg | 17.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.9              |                 | mg/kg | 18.9       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 44.3              |                 | mg/kg | 44.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 157               |                 | mg/kg | 157        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.8              |                 | mg/kg | 11.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.5              |                 | mg/kg | 25.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 70.0              |                 | mg/kg | 70.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B71       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-140 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                               | % Solids: 69.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B71       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-140 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 69.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8000              |                 | mg/kg | 8000       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3760              |                 | mg/kg | 3760       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17400             |                 | mg/kg | 17400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1880              |                 | mg/kg | 1880       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 512               | J               | mg/kg | 512        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 690               | U               | mg/kg | 690        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B71       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-140 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                          | % Solids: 69.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.78       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.4              |                 | mg/kg | 46.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.66              | U               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.6               |                 | mg/kg | 1.6        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 23.1              |                 | mg/kg | 23.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 31.1              |                 | mg/kg | 31.1       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 68.9              |                 | mg/kg | 68.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 169               |                 | mg/kg | 169        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 30.9              |                 | mg/kg | 30.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | U               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.5              |                 | mg/kg | 21.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 133               |                 | mg/kg | 133        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B73       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                               | % Solids: 71.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.060             | J               | mg/kg | 0.060      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B73       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                           | % Solids: 71.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9310              |                 | mg/kg | 9310       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4040              |                 | mg/kg | 4040       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 30400             |                 | mg/kg | 30400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2510              |                 | mg/kg | 2510       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 794               |                 | mg/kg | 794        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 680               | U               | mg/kg | 680        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B73       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                          | % Solids: 71.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 47.1              |                 | mg/kg | 47.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.63              | U               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.63              | U               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.5              |                 | mg/kg | 17.5       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        | D        | 2               | YES        | S4VEM            |
| Copper       | Target       | 23.8              |                 | mg/kg | 23.8       | DX*      | 2               | YES        | S4VEM            |
| Lead         | Target       | 71.2              |                 | mg/kg | 71.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 255               |                 | mg/kg | 255        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.3              |                 | mg/kg | 10.3       | D        | 2               | YES        | S4VEM            |
| Selenium     | Target       | 6.3               | U               | mg/kg | 6.3        | UD       | 2               | YES        | S4VEM            |
| Silver       | Target       | 1.3               | U               | mg/kg | 1.3        | UD       | 2               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.3              |                 | mg/kg | 21.3       | D        | 2               | YES        | S4VEM            |
| Zinc         | Target       | 131               |                 | mg/kg | 131        | D        | 2               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B75       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-144 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                               | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.092             | J               | mg/kg | 0.092      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B75       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-144 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                           | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9520              |                 | mg/kg | 9520       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1810              |                 | mg/kg | 1810       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18700             |                 | mg/kg | 18700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1990              |                 | mg/kg | 1990       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 909               |                 | mg/kg | 909        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 670               | U               | mg/kg | 670        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B75       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-144 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.74       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 39.0              |                 | mg/kg | 39.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | U               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.3              |                 | mg/kg | 16.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 74.7              |                 | mg/kg | 74.7       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 45.5              |                 | mg/kg | 45.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 209               |                 | mg/kg | 209        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.2              |                 | mg/kg | 25.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 137               |                 | mg/kg | 137        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B76

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-145

pH:

Sample Date: 11/12/2020

Sample Time: 11:35:00

% Moisture:

% Solids: 68.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.084             | J               | mg/kg | 0.084      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B76       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-145 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                           | % Solids: 68.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11300             |                 | mg/kg | 11300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7680              |                 | mg/kg | 7680       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20900             |                 | mg/kg | 20900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3990              |                 | mg/kg | 3990       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1040              |                 | mg/kg | 1040       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 712               | U               | mg/kg | 712        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B76       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-145 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                          | % Solids: 68.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.94       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 60.7              |                 | mg/kg | 60.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.66              | U               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.66              | U               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.8              |                 | mg/kg | 17.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 27.1              |                 | mg/kg | 27.1       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 73.6              |                 | mg/kg | 73.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 212               |                 | mg/kg | 212        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.0              |                 | mg/kg | 12.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | U               | mg/kg | 0.090      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.7              |                 | mg/kg | 25.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 98.3              |                 | mg/kg | 98.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

Sample Number: MC0B79

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-148

pH:

Sample Date: 11/12/2020

Sample Time: 13:15:00

% Moisture:

% Solids: 76.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.055             | J               | mg/kg | 0.055      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B79       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:                 |                           | % Solids: 76.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9730              |                 | mg/kg | 9730       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2040              |                 | mg/kg | 2040       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18200             |                 | mg/kg | 18200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2070              |                 | mg/kg | 2070       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 675               |                 | mg/kg | 675        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 630               | U               | mg/kg | 630        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B79       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 13:15:00 |
| % Moisture:                 |                          | % Solids: 76.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 50.1              |                 | mg/kg | 50.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | U               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.61              | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.1              |                 | mg/kg | 16.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.9              |                 | mg/kg | 14.9       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.9              |                 | mg/kg | 50.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 214               |                 | mg/kg | 214        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.61              | U               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.078      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 28.1              |                 | mg/kg | 28.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 82.2              |                 | mg/kg | 82.2       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148-01 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                               | % Solids: 76.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.061             | J               | mg/kg | 0.061      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148-01 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                           | % Solids: 76.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8750              |                 | mg/kg | 8750       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2140              |                 | mg/kg | 2140       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16100             |                 | mg/kg | 16100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2180              |                 | mg/kg | 2180       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 956               |                 | mg/kg | 956        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 621               | U               | mg/kg | 621        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-148-01 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 15:15:00 |
| % Moisture:                    |                          | % Solids: 76.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 74.1              |                 | mg/kg | 74.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.69              |                 | mg/kg | 0.69       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.61              | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.7              |                 | mg/kg | 22.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.7              |                 | mg/kg | 14.7       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 45.4              |                 | mg/kg | 45.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 322               |                 | mg/kg | 322        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.6              |                 | mg/kg | 13.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.61              | U               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.2              |                 | mg/kg | 36.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 160               |                 | mg/kg | 160        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                           | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                               | % Solids: 79.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.063             | J               | mg/kg | 0.063      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                           | % Solids: 79.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8840              |                 | mg/kg | 8840       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1540              |                 | mg/kg | 1540       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19100             |                 | mg/kg | 19100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1810              |                 | mg/kg | 1810       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 504               | J               | mg/kg | 504        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 606               | U               | mg/kg | 606        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                      | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                          | % Solids: 79.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.9              |                 | mg/kg | 42.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.58              | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.8               |                 | mg/kg | 6.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.9              |                 | mg/kg | 13.9       | X*       | 1               | YES        | S4VEM            |
| Lead         | Target       | 39.3              |                 | mg/kg | 39.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 170               |                 | mg/kg | 170        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.7              |                 | mg/kg | 25.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 49.3              |                 | mg/kg | 49.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AW9

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS704 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | NV               |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | NV               |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS732 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | NV               |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | NV               |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Copper       | Target       | 0.58              | J               | mg/kg | 0.58       | J        | 1               | YES        | NV               |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | NV               |
| Zinc         | Target       | 0.60              | J               | mg/kg | 0.60       | J        | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL40 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AW9

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 3/10/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AX9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #0221026





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** March 9, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MC0AX9

### Overview

This data package consisted of eighteen (18) soil samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 7, 2020.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Serial dilution and blank contamination issues required qualification of sample data.

### Minor Problems

The percent difference (%D) in the ICP-AES serial dilution analysis was outside the control limit (>10%) for Fe in sample MC0B16. The detected concentration for Fe is estimated in this sample and has been qualified "J".

Laboratory instrumentation reported negative values for Hg in blank analyses greater than the absolute value of the Method Detection Limit (MDL). Detected concentrations for Hg less than the CRQL were reported at the CRQL and qualified "UJ".

**Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb) has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for Sb less than the CRQL have been reported at the CRQL and qualified "U".

Target analyte Hg matrix spike, laboratory duplicate, ICP-MS serial dilution, and Laboratory Control Sample analyses were within control limits.

The matrix spike recovery was outside control limits for lead (Pb) in sample MCOB16. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at two-fold (2X) dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Samples                | Analyte        |
|------------------------|----------------|
| MCOB16, MCOB22, MCOB90 | Pb             |
| MCOB22, MCOB86, MCOB90 | Manganese (Mn) |

Sample calculation checks were performed on sample MCOAX9. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

---

- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: LCS705

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.9              |                 | mg/kg | 39.9       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1140              |                 | mg/kg | 1140       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 1060              |                 | mg/kg | 1060       |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 969               |                 | mg/kg | 969        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 1000              |                 | mg/kg | 1000       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS733 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.89              |                 | mg/kg | 0.89       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-116 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                               | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.016      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: MC0AX9

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-116

pH:

Sample Date: 11/16/2020

Sample Time: 11:15:00

% Moisture:

% Solids: 73.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9560              |                 | mg/kg | 9560       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 493               | J               | mg/kg | 493        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 18100             |                 | mg/kg | 18100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1860              |                 | mg/kg | 1860       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 694               |                 | mg/kg | 694        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 646               | U               | mg/kg | 646        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AX9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-116 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                          | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 31.0              |                 | mg/kg | 31.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.5              |                 | mg/kg | 18.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.6              |                 | mg/kg | 13.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 24.8              |                 | mg/kg | 24.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 103               |                 | mg/kg | 103        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.6              |                 | mg/kg | 10.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.6              |                 | mg/kg | 33.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 45.0              |                 | mg/kg | 45.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B12       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                               | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.097      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B12       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                           | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10500             |                 | mg/kg | 10500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 26900             |                 | mg/kg | 26900      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3040              |                 | mg/kg | 3040       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 649               |                 | mg/kg | 649        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 186               | J               | mg/kg | 186        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B12       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                          | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.7              |                 | mg/kg | 46.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | J               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.54              | J               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 27.5              |                 | mg/kg | 27.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 29.1              |                 | mg/kg | 29.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 109               |                 | mg/kg | 109        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 161               |                 | mg/kg | 161        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.1              |                 | mg/kg | 31.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 174               |                 | mg/kg | 174        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: MC0B13

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-150

pH:

Sample Date: 11/16/2020

Sample Time: 08:50:00

% Moisture:

% Solids: 72.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.073      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B13       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                           | % Solids: 72.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8100              |                 | mg/kg | 8100       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4820              |                 | mg/kg | 4820       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15200             |                 | mg/kg | 15200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1710              |                 | mg/kg | 1710       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 276               | J               | mg/kg | 276        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 667               | U               | mg/kg | 667        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B13       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                          | % Solids: 72.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 1.0        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 67.4              |                 | mg/kg | 67.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.9              |                 | mg/kg | 14.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 31.3              |                 | mg/kg | 31.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 95.6              |                 | mg/kg | 95.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 326               |                 | mg/kg | 326        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.8              |                 | mg/kg | 10.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.69              | U               | mg/kg | 0.69       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.3              |                 | mg/kg | 23.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 137               |                 | mg/kg | 137        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: MC0B14

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-151

pH:

Sample Date: 11/16/2020

Sample Time: 10:25:00

% Moisture:

% Solids: 77.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B14       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-151 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                           | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7680              |                 | mg/kg | 7680       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2050              |                 | mg/kg | 2050       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15100             |                 | mg/kg | 15100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1810              |                 | mg/kg | 1810       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 959               |                 | mg/kg | 959        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 618               | U               | mg/kg | 618        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B14       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-151 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                          | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.79       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 45.4              |                 | mg/kg | 45.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.3              |                 | mg/kg | 14.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 40.8              |                 | mg/kg | 40.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 101               |                 | mg/kg | 101        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 24.3              |                 | mg/kg | 24.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 103               |                 | mg/kg | 103        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B15       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                               | % Solids: 58.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.15              | UJ              | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B15       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                           | % Solids: 58.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8490              |                 | mg/kg | 8490       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3130              |                 | mg/kg | 3130       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1690              |                 | mg/kg | 1690       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 413               | J               | mg/kg | 413        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 827               | U               | mg/kg | 827        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B15       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                          | % Solids: 58.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.7               | U               | mg/kg | 0.87       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.2              |                 | mg/kg | 46.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.40              | J               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.36              | J               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.9              |                 | mg/kg | 11.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.7              |                 | mg/kg | 14.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 55.7              |                 | mg/kg | 55.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 324               |                 | mg/kg | 324        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.3               | U               | mg/kg | 4.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.85              | U               | mg/kg | 0.85       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.85              | U               | mg/kg | 0.85       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.7              |                 | mg/kg | 22.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 111               |                 | mg/kg | 111        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                               | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                           | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6690              |                 | mg/kg | 6690       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 9450              |                 | mg/kg | 9450       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17500             | J               | mg/kg | 17500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2180              |                 | mg/kg | 2180       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 646               |                 | mg/kg | 646        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 599               | U               | mg/kg | 599        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                          | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.1        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 85.6              |                 | mg/kg | 85.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.70              |                 | mg/kg | 0.70       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 29.1              |                 | mg/kg | 29.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 35.0              |                 | mg/kg | 35.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 420               |                 | mg/kg | 420        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 280               |                 | mg/kg | 280        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.9              |                 | mg/kg | 10.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.3              |                 | mg/kg | 21.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 190               |                 | mg/kg | 190        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: MC0B16D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/16/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 80.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.077             | J               | mg/kg | 0.077      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                           | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6750              |                 | mg/kg | 6750       |          | 1               | YES        | NV               |
| Calcium      | Target       | 9530              |                 | mg/kg | 9530       |          | 1               | YES        | NV               |
| Iron         | Target       | 17500             |                 | mg/kg | 17500      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 2200              |                 | mg/kg | 2200       |          | 1               | YES        | NV               |
| Potassium    | Target       | 629               |                 | mg/kg | 629        |          | 1               | YES        | NV               |
| Sodium       | Target       | 599               | U               | mg/kg | 599        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                          | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | J               | mg/kg | 1.0        | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | NV               |
| Barium       | Target       | 85.9              |                 | mg/kg | 85.9       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.68              |                 | mg/kg | 0.68       |          | 1               | YES        | NV               |
| Chromium     | Target       | 28.5              |                 | mg/kg | 28.5       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | NV               |
| Copper       | Target       | 35.6              |                 | mg/kg | 35.6       |          | 1               | YES        | NV               |
| Lead         | Target       | 424               |                 | mg/kg | 424        | D        | 2               | YES        | NV               |
| Manganese    | Target       | 279               |                 | mg/kg | 279        |          | 1               | YES        | NV               |
| Nickel       | Target       | 10.9              |                 | mg/kg | 10.9       |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | NV               |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 21.0              |                 | mg/kg | 21.0       |          | 1               | YES        | NV               |
| Zinc         | Target       | 191               |                 | mg/kg | 191        |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B16L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 80.2 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7340              |                 | mg/kg | 7340       |          | 5               | YES        | NV               |
| Calcium      | Target       | 10400             |                 | mg/kg | 10400      |          | 5               | YES        | NV               |
| Iron         | Target       | 19700             |                 | mg/kg | 19700      | X*       | 5               | YES        | NV               |
| Magnesium    | Target       | 2420              | J               | mg/kg | 2420       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 659               | J               | mg/kg | 659        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3000              | U               | mg/kg | 3000       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B16L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 80.2 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.5               | J               | mg/kg | 1.5        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 10.0              |                 | mg/kg | 10.0       |          | 5               | YES        | NV               |
| Barium       | Target       | 90.0              |                 | mg/kg | 90.0       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 0.64              | J               | mg/kg | 0.64       | J        | 5               | YES        | NV               |
| Chromium     | Target       | 27.2              |                 | mg/kg | 27.2       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 5               | YES        | NV               |
| Copper       | Target       | 34.9              |                 | mg/kg | 34.9       |          | 5               | YES        | NV               |
| Lead         | Target       | 450               |                 | mg/kg | 450        | D        | 10              | YES        | NV               |
| Manganese    | Target       | 267               |                 | mg/kg | 267        |          | 5               | YES        | NV               |
| Nickel       | Target       | 10.6              |                 | mg/kg | 10.6       |          | 5               | YES        | NV               |
| Selenium     | Target       | 15.4              | U               | mg/kg | 15.4       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 20.7              |                 | mg/kg | 20.7       |          | 5               | YES        | NV               |
| Zinc         | Target       | 195               |                 | mg/kg | 195        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                               | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.64              |                 | mg/kg | 0.64       |          | 1               | YES        | NV               |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B16S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:            |                          | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 12.7              |                 | mg/kg | 12.7       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | NV               |
| Barium       | Spike        | 318               |                 | mg/kg | 318        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 54.0              |                 | mg/kg | 54.0       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 64.8              |                 | mg/kg | 64.8       |          | 1               | YES        | NV               |
| Copper       | Spike        | 65.9              |                 | mg/kg | 65.9       |          | 1               | YES        | NV               |
| Lead         | Spike        | 420               |                 | mg/kg | 420        | D        | 2               | YES        | NV               |
| Manganese    | Spike        | 335               |                 | mg/kg | 335        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 72.8              |                 | mg/kg | 72.8       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 14.1              |                 | mg/kg | 14.1       |          | 1               | YES        | NV               |
| Silver       | Spike        | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 87.8              |                 | mg/kg | 87.8       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 259               |                 | mg/kg | 259        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B17       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                               | % Solids: 67.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.073      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B17       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                           | % Solids: 67.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8940              |                 | mg/kg | 8940       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4590              |                 | mg/kg | 4590       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18500             |                 | mg/kg | 18500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3330              |                 | mg/kg | 3330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 894               |                 | mg/kg | 894        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 710               | U               | mg/kg | 710        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B17       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                          | % Solids: 67.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.5               | U               | mg/kg | 1.1        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 96.8              |                 | mg/kg | 96.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 56.4              |                 | mg/kg | 56.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 55.7              |                 | mg/kg | 55.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.9              |                 | mg/kg | 50.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 187               |                 | mg/kg | 187        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 26.0              |                 | mg/kg | 26.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.7               | U               | mg/kg | 3.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.74              | U               | mg/kg | 0.74       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 48.1              |                 | mg/kg | 48.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 364               |                 | mg/kg | 364        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B18       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                               | % Solids: 72.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B18       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 72.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8900              |                 | mg/kg | 8900       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3820              |                 | mg/kg | 3820       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15600             |                 | mg/kg | 15600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2180              |                 | mg/kg | 2180       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 640               | J               | mg/kg | 640        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 660               | U               | mg/kg | 660        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B18       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                          | % Solids: 72.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.73       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 10.9              |                 | mg/kg | 10.9       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 66.9              |                 | mg/kg | 66.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.59              | J               | mg/kg | 0.59       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.35              | J               | mg/kg | 0.35       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 32.5              |                 | mg/kg | 32.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 28.6              |                 | mg/kg | 28.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 55.6              |                 | mg/kg | 55.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 313               |                 | mg/kg | 313        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.7              |                 | mg/kg | 23.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 90.1              |                 | mg/kg | 90.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B22       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                               | % Solids: 75.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B22       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                           | % Solids: 75.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2690              |                 | mg/kg | 2690       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17900             |                 | mg/kg | 17900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1860              |                 | mg/kg | 1860       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 888               |                 | mg/kg | 888        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 626               | U               | mg/kg | 626        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B22       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                          | % Solids: 75.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 117               |                 | mg/kg | 117        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.68              |                 | mg/kg | 0.68       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.65              | J               | mg/kg | 0.65       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.8              |                 | mg/kg | 19.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 36.0              |                 | mg/kg | 36.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 349               |                 | mg/kg | 349        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 352               |                 | mg/kg | 352        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.3              |                 | mg/kg | 11.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.35              | J               | mg/kg | 0.35       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.090             | J               | mg/kg | 0.090      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 230               |                 | mg/kg | 230        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B47       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-116 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                               | % Solids: 71.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.037      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B47       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-116 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                           | % Solids: 71.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10700             |                 | mg/kg | 10700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1220              |                 | mg/kg | 1220       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22000             |                 | mg/kg | 22000      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2110              |                 | mg/kg | 2110       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 897               |                 | mg/kg | 897        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 667               | U               | mg/kg | 667        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B47       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-116 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                          | % Solids: 71.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 1.2        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 11.3              |                 | mg/kg | 11.3       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.8              |                 | mg/kg | 40.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.32              | J               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.0              |                 | mg/kg | 21.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 29.0              |                 | mg/kg | 29.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 47.3              |                 | mg/kg | 47.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 215               |                 | mg/kg | 215        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.1              |                 | mg/kg | 11.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.0              |                 | mg/kg | 32.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 138               |                 | mg/kg | 138        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B80       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-149 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                               | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B80       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-149 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                           | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9570              |                 | mg/kg | 9570       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 8010              |                 | mg/kg | 8010       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17100             |                 | mg/kg | 17100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1870              |                 | mg/kg | 1870       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 530               | J               | mg/kg | 530        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 655               | U               | mg/kg | 655        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B80       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-149 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 08:20:00 |
| % Moisture:                 |                          | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 1.3        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 47.9              |                 | mg/kg | 47.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.4              |                 | mg/kg | 18.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 21.8              |                 | mg/kg | 21.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 106               |                 | mg/kg | 106        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 184               |                 | mg/kg | 184        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.9              |                 | mg/kg | 12.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.69              | U               | mg/kg | 0.69       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.8              |                 | mg/kg | 33.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 139               |                 | mg/kg | 139        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B81       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                               | % Solids: 71.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.093      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B81       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                           | % Solids: 71.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8270              |                 | mg/kg | 8270       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3200              |                 | mg/kg | 3200       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15900             |                 | mg/kg | 15900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1590              |                 | mg/kg | 1590       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 327               | J               | mg/kg | 327        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 663               | U               | mg/kg | 663        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B81       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-150 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 08:55:00 |
| % Moisture:                 |                          | % Solids: 71.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.89       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.0               |                 | mg/kg | 8.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 58.7              |                 | mg/kg | 58.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.9              |                 | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 26.5              |                 | mg/kg | 26.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 91.6              |                 | mg/kg | 91.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 310               |                 | mg/kg | 310        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.3              |                 | mg/kg | 25.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 117               |                 | mg/kg | 117        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B82       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-151 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                               | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B82       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-151 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                           | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6220              |                 | mg/kg | 6220       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2550              |                 | mg/kg | 2550       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 14900             |                 | mg/kg | 14900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1570              |                 | mg/kg | 1570       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 814               |                 | mg/kg | 814        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 677               | U               | mg/kg | 677        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B82       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-151 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.69       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.9              |                 | mg/kg | 40.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.38              | J               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.4               |                 | mg/kg | 3.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.9              |                 | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 38.9              |                 | mg/kg | 38.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 99.1              |                 | mg/kg | 99.1       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.9              |                 | mg/kg | 16.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 85.4              |                 | mg/kg | 85.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B83       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-152 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                               | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.082      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B83       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-152 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                           | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6900              |                 | mg/kg | 6900       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1940              |                 | mg/kg | 1940       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 12500             |                 | mg/kg | 12500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1140              |                 | mg/kg | 1140       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 349               | J               | mg/kg | 349        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 677               | U               | mg/kg | 677        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B83       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-152 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:00:00 |
| % Moisture:                 |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.99       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.5              |                 | mg/kg | 43.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.32              | J               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.7              |                 | mg/kg | 11.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.9              |                 | mg/kg | 14.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 82.6              |                 | mg/kg | 82.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 130               |                 | mg/kg | 130        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.094             | J               | mg/kg | 0.094      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 19.8              |                 | mg/kg | 19.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 66.8              |                 | mg/kg | 66.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: MC0B85

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-154

pH:

Sample Date: 11/16/2020

Sample Time: 09:55:00

% Moisture:

% Solids: 70.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.28              |                 | mg/kg | 0.28       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B85       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-154 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 09:55:00 |
| % Moisture:                 |                           | % Solids: 70.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8770              |                 | mg/kg | 8770       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3400              |                 | mg/kg | 3400       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16600             |                 | mg/kg | 16600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2300              |                 | mg/kg | 2300       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 600               | J               | mg/kg | 600        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 700               | U               | mg/kg | 700        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B85       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-154 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 09:55:00 |
| % Moisture:                 |                          | % Solids: 70.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 1.2        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 78.5              |                 | mg/kg | 78.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.54              | J               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 35.0              |                 | mg/kg | 35.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 45.1              |                 | mg/kg | 45.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 101               |                 | mg/kg | 101        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 187               |                 | mg/kg | 187        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 18.3              |                 | mg/kg | 18.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.71              | U               | mg/kg | 0.71       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.9              |                 | mg/kg | 24.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 211               |                 | mg/kg | 211        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B86       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-155 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                               | % Solids: 74.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B86       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-155 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                           | % Solids: 74.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3780              |                 | mg/kg | 3780       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17100             |                 | mg/kg | 17100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2080              |                 | mg/kg | 2080       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 662               |                 | mg/kg | 662        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 650               | U               | mg/kg | 650        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B86       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-155 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                          | % Solids: 74.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 65.9              |                 | mg/kg | 65.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.66              | J               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.4              |                 | mg/kg | 26.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 32.5              |                 | mg/kg | 32.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 56.2              |                 | mg/kg | 56.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 368               |                 | mg/kg | 368        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.67              | U               | mg/kg | 0.67       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.5              |                 | mg/kg | 25.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 89.4              |                 | mg/kg | 89.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B90       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                               | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.21              |                 | mg/kg | 0.21       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B90       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                           | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11200             |                 | mg/kg | 11200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2410              |                 | mg/kg | 2410       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19700             |                 | mg/kg | 19700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2130              |                 | mg/kg | 2130       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 786               |                 | mg/kg | 786        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 658               | U               | mg/kg | 658        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B90       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-159 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 14:30:00 |
| % Moisture:                 |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 124               |                 | mg/kg | 124        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.76              |                 | mg/kg | 0.76       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.77              |                 | mg/kg | 0.77       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.7              |                 | mg/kg | 19.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 40.3              |                 | mg/kg | 40.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 384               |                 | mg/kg | 384        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 424               |                 | mg/kg | 424        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.4              |                 | mg/kg | 11.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.29              | J               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.096             | J               | mg/kg | 0.096      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.7              |                 | mg/kg | 36.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 250               |                 | mg/kg | 250        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                               | % Solids: 77.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.068      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                           | % Solids: 77.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1470              |                 | mg/kg | 1470       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2050              |                 | mg/kg | 2050       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 714               |                 | mg/kg | 714        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 611               | U               | mg/kg | 611        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                          | % Solids: 77.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.71       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 31.3              |                 | mg/kg | 31.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.70              |                 | mg/kg | 0.70       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.5              |                 | mg/kg | 16.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.8              |                 | mg/kg | 13.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 42.2              |                 | mg/kg | 42.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 233               |                 | mg/kg | 233        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.4              |                 | mg/kg | 24.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 49.8              |                 | mg/kg | 49.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

Sample Number: PBS705

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS733 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | -0.33             | J               | mg/kg | -0.33      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AX9

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL41 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | -0.020            | J               | mg/kg | -0.020     | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

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**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AX9

**Lab Name:** CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE:

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric" followed by a stylized set of initials.

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AY8 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

**(b) (4)**

TO: #0002 TDF: #1220075





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 10, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOAY8

### Overview

This data package consisted of two (2) rinsate blanks and thirteen (13) soil samples, including four (4) field duplicate samples, analyzed for metals by ICP-AES and ICP-MS and mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 22, 2020.

Sample MCOB72 (from SDG MCOAZ9) and samples MCOBC4 and MCOBB1 (from SDG MCOB56) were associated with field duplicates MCOBH4, MCOBH3 and MCOBH5, respectively, and were used in evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Matrix spike and blank contamination issues required estimation of sample data.

**Minor Problems**

The matrix spike recovery was low (<75%) for silver (Ag) in soil sample MCOB04. The post-digestion spike recovery was greater than 75%. The quantitation limit for Ag is estimated in this sample and has been qualified "UJ".

Laboratory instrumentation reported negative values for manganese (Mn), selenium (Se) and zinc (Zn) greater than absolute values of the Method Detection Limits (MDLs) in blank analyses. Detected concentrations reported for Mn and Zn in rinsate blank MCOBG9 which were less than Contract Required Quantitation Limits (CRQLs) were reported at the CRQL and qualified "UJ". Quantitation limits for Mn in rinsate blank MCOBG9 and for Se in all samples are estimated and qualified "UJ".

**Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Antimony (Sb) has been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL in associated samples have been reported at the CRQL and qualified "U".

Rinsate blank MCOBG9 reported concentrations for arsenic (As) and chromium (Cr) less than the CRQLs. Rinsate blank MCOBH0 reported concentrations for Cr and nickel (Ni) less than the CRQLs and for Zn greater than the CRQL. Detected concentrations for Zn were greater than ten times (>10X) the blank concentration and not qualified based on this finding. Detected concentrations for the remaining analytes were greater than the CRQLs and not qualified based on these findings.

Target analyte Hg matrix spike, laboratory duplicate, serial dilution, and Laboratory Control Sample (LCS) analyses were within control limits.

No matrix spike nor laboratory duplicate analysis were performed on sample MCOBG9, as this is a field quality control sample. No data were qualified based on this finding.

The concentration for Mn exceeded the calibration range in the initial analysis for sample MCOAY8. This sample was reanalyzed at a two-fold (2X) dilution in order to quantitate Mn within the calibration range. The result was reported from the dilution.

Results reported for field duplicate pair MCOBH2/MCOB04 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes except cobalt (Co) and Mn. No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOBH3/MCOBC4 were comparable (within control limits of 25 RPD or  $\pm$  CRQL) for all analytes except arsenic (As). No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOBH4/MCOB72 were comparable (within control limits of 25 RPD or  $\pm$  CRQL) for all analytes. No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOBH5/MCOBB1 were comparable (within control limits of 25 RPD or  $\pm$  CRQL) for all analytes except Al and lead (Pb). No data were qualified based on field duplicate precision.

Sample calculation checks were performed on samples MCOAY8 and MCOBG9, as well as the ICP-AES aqueous LCS. All calculated results had Relative Percent Differences RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

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Validation Qualifiers In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: LCS710

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 38.8              |                 | mg/kg | 38.8       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.3              |                 | mg/kg | 22.3       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 973               |                 | mg/kg | 973        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 946               |                 | mg/kg | 946        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 966               |                 | mg/kg | 966        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: LCS714 | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 414               |                 | ug/L  | 414        |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 11100             |                 | ug/L  | 11100      |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 232               |                 | ug/L  | 232        |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 10300             |                 | ug/L  | 10300      |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 9750              |                 | ug/L  | 9750       |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 10000             |                 | ug/L  | 10000      |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS743 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS744 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 3.8               |                 | ug/L  | 3.8        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 18.4              |                 | ug/L  | 18.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 3.7               |                 | ug/L  | 3.7        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 3.6               |                 | ug/L  | 3.6        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.4               |                 | ug/L  | 1.4        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 8.4               |                 | ug/L  | 8.4        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 9.0               |                 | ug/L  | 9.0        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 3.2               |                 | ug/L  | 3.2        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-125 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                               | % Solids: 81.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0AY8

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-125

pH:

Sample Date: 11/18/2020

Sample Time: 08:25:00

% Moisture:

% Solids: 81.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8970              |                 | mg/kg | 8970       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1710              |                 | mg/kg | 1710       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16800             |                 | mg/kg | 16800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1620              |                 | mg/kg | 1620       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 460               | J               | mg/kg | 460        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 545               | U               | mg/kg | 545        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-125 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                          | % Solids: 81.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.0               |                 | mg/kg | 8.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 59.9              |                 | mg/kg | 59.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.40              | J               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 21.9              |                 | mg/kg | 21.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 77.1              |                 | mg/kg | 77.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 430               |                 | mg/kg | 430        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.5              |                 | mg/kg | 11.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.7              |                 | mg/kg | 25.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 327               |                 | mg/kg | 327        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                               | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9110              |                 | mg/kg | 9110       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1150              |                 | mg/kg | 1150       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17300             |                 | mg/kg | 17300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1730              |                 | mg/kg | 1730       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 935               |                 | mg/kg | 935        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 581               | U               | mg/kg | 581        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-128 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                          | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 49.4              |                 | mg/kg | 49.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.1              |                 | mg/kg | 15.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 67.6              |                 | mg/kg | 67.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 235               |                 | mg/kg | 235        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.6               |                 | mg/kg | 9.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.29              | J               | mg/kg | 0.29       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.6              |                 | mg/kg | 27.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 70.4              |                 | mg/kg | 70.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              |                 | mg/kg | 0.12       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4040              |                 | mg/kg | 4040       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19800             |                 | mg/kg | 19800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2250              |                 | mg/kg | 2250       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 870               |                 | mg/kg | 870        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 559               | U               | mg/kg | 559        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-130 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.6              |                 | mg/kg | 43.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.3              |                 | mg/kg | 19.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 30.8              |                 | mg/kg | 30.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 90.5              |                 | mg/kg | 90.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 255               |                 | mg/kg | 255        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.30              | J               | mg/kg | 0.30       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 28.7              |                 | mg/kg | 28.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 77.1              |                 | mg/kg | 77.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0AZ4

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-131

pH:

Sample Date: 11/18/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 75.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0AZ4

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-131

pH:

Sample Date: 11/18/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 75.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 16600             |                 | mg/kg | 16600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 11700             |                 | mg/kg | 11700      |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21400             |                 | mg/kg | 21400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 16500             |                 | mg/kg | 16500      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5100              |                 | mg/kg | 5100       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 616               | U               | mg/kg | 616        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-131 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                          | % Solids: 75.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 1.3        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 180               |                 | mg/kg | 180        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.32              | J               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 366               |                 | mg/kg | 366        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 14.5              |                 | mg/kg | 14.5       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 28.5              |                 | mg/kg | 28.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 19.7              |                 | mg/kg | 19.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 287               |                 | mg/kg | 287        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 57.8              |                 | mg/kg | 57.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.74              |                 | mg/kg | 0.74       | *        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 44.9              |                 | mg/kg | 44.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 93.8              |                 | mg/kg | 93.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-132 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                               | % Solids: 77.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.097      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0AZ5

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-132

pH:

Sample Date: 11/18/2020

Sample Time: 11:30:00

% Moisture:

% Solids: 77.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12400             |                 | mg/kg | 12400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 808               |                 | mg/kg | 808        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23600             |                 | mg/kg | 23600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2070              |                 | mg/kg | 2070       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 685               |                 | mg/kg | 685        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 590               | U               | mg/kg | 590        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-132 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 11:30:00 |
| % Moisture:                 |                          | % Solids: 77.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 34.4              |                 | mg/kg | 34.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.6              |                 | mg/kg | 17.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.2              |                 | mg/kg | 15.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 36.6              |                 | mg/kg | 36.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 232               |                 | mg/kg | 232        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.8              |                 | mg/kg | 10.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.083             | J               | mg/kg | 0.083      | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 43.5              |                 | mg/kg | 43.5       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-133 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                               | % Solids: 91.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0AZ6

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-133

pH:

Sample Date: 11/18/2020

Sample Time: 12:05:00

% Moisture:

% Solids: 91.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9630              |                 | mg/kg | 9630       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1190              |                 | mg/kg | 1190       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18100             |                 | mg/kg | 18100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2110              |                 | mg/kg | 2110       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 976               |                 | mg/kg | 976        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 523               | U               | mg/kg | 523        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-133 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                          | % Solids: 91.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.2              |                 | mg/kg | 42.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.3              |                 | mg/kg | 12.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 30.5              |                 | mg/kg | 30.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 128               |                 | mg/kg | 128        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | UJ              | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.2              |                 | mg/kg | 22.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 60.1              |                 | mg/kg | 60.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B00       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                               | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B00       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                           | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11800             |                 | mg/kg | 11800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1700              |                 | mg/kg | 1700       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1890              |                 | mg/kg | 1890       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 508               | J               | mg/kg | 508        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 572               | U               | mg/kg | 572        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B00       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-137 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 13:00:00 |
| % Moisture:                 |                          | % Solids: 80.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.27       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 45.7              |                 | mg/kg | 45.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.095             | J               | mg/kg | 0.095      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.5              |                 | mg/kg | 16.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.6              |                 | mg/kg | 10.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 26.6              |                 | mg/kg | 26.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 170               |                 | mg/kg | 170        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.9              |                 | mg/kg | 25.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 36.8              |                 | mg/kg | 36.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B02       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                               | % Solids: 79.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B02       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                           | % Solids: 79.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9500              |                 | mg/kg | 9500       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1780              |                 | mg/kg | 1780       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17900             |                 | mg/kg | 17900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1650              |                 | mg/kg | 1650       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 482               | J               | mg/kg | 482        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 560               | U               | mg/kg | 560        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B02       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-139 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:05:00 |
| % Moisture:                 |                          | % Solids: 79.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.0              |                 | mg/kg | 43.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.29              | J               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.9              |                 | mg/kg | 13.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 40.8              |                 | mg/kg | 40.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 151               |                 | mg/kg | 151        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.2              |                 | mg/kg | 25.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 107               |                 | mg/kg | 107        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B04       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.088      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B04       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                           | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12700             |                 | mg/kg | 12700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 889               |                 | mg/kg | 889        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21700             |                 | mg/kg | 21700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1880              |                 | mg/kg | 1880       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 554               | J               | mg/kg | 554        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 565               | U               | mg/kg | 565        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B04       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:                 |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.6              |                 | mg/kg | 43.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.1              |                 | mg/kg | 22.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.2              |                 | mg/kg | 11.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 25.9              |                 | mg/kg | 25.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 139               |                 | mg/kg | 139        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | UJ              | mg/kg | 0.58       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.4              |                 | mg/kg | 36.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 38.9              |                 | mg/kg | 38.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0B04A

Method: Metals by ICP-MS

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:50:00

% Moisture:

% Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Silver       | Spike        | 1.2               |                 | mg/kg | 1.2        | *        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0B04D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:50:00

% Moisture:

% Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.089             | J               | mg/kg | 0.089      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0B04D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:50:00

% Moisture:

% Solids: 82.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12800             |                 | mg/kg | 12800      |          | 1               | YES        | NV               |
| Calcium      | Target       | 889               |                 | mg/kg | 889        |          | 1               | YES        | NV               |
| Iron         | Target       | 21800             |                 | mg/kg | 21800      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1900              |                 | mg/kg | 1900       |          | 1               | YES        | NV               |
| Potassium    | Target       | 552               | J               | mg/kg | 552        | J        | 1               | YES        | NV               |
| Sodium       | Target       | 565               | U               | mg/kg | 565        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B04D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:            |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | NV               |
| Barium       | Target       | 43.2              |                 | mg/kg | 43.2       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.54              | J               | mg/kg | 0.54       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | NV               |
| Chromium     | Target       | 22.0              |                 | mg/kg | 22.0       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | NV               |
| Copper       | Target       | 11.2              |                 | mg/kg | 11.2       |          | 1               | YES        | NV               |
| Lead         | Target       | 25.2              |                 | mg/kg | 25.2       |          | 1               | YES        | NV               |
| Manganese    | Target       | 133               |                 | mg/kg | 133        |          | 1               | YES        | NV               |
| Nickel       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | NV               |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 36.2              |                 | mg/kg | 36.2       |          | 1               | YES        | NV               |
| Zinc         | Target       | 38.6              |                 | mg/kg | 38.6       |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B04L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 82.0 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13200             |                 | mg/kg | 13200      |          | 5               | YES        | NV               |
| Calcium      | Target       | 942               | J               | mg/kg | 942        | J        | 5               | YES        | NV               |
| Iron         | Target       | 23800             |                 | mg/kg | 23800      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 1990              | J               | mg/kg | 1990       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 510               | J               | mg/kg | 510        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 2820              | U               | mg/kg | 2820       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B04L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 82.0 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 5.8               | U               | mg/kg | 5.8        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 4.1               |                 | mg/kg | 4.1        |          | 5               | YES        | NV               |
| Barium       | Target       | 43.7              |                 | mg/kg | 43.7       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 21.2              |                 | mg/kg | 21.2       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 5               | YES        | NV               |
| Copper       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 5               | YES        | NV               |
| Lead         | Target       | 25.6              |                 | mg/kg | 25.6       |          | 5               | YES        | NV               |
| Manganese    | Target       | 130               |                 | mg/kg | 130        |          | 5               | YES        | NV               |
| Nickel       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 5               | YES        | NV               |
| Selenium     | Target       | 14.5              | U               | mg/kg | 14.5       | U        | 5               | YES        | NV               |
| Silver       | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 34.1              |                 | mg/kg | 34.1       |          | 5               | YES        | NV               |
| Zinc         | Target       | 37.4              |                 | mg/kg | 37.4       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B04S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:            |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.73              |                 | mg/kg | 0.73       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B04S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:50:00 |
| % Moisture:            |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.2              |                 | mg/kg | 11.2       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | NV               |
| Barium       | Spike        | 244               |                 | mg/kg | 244        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 42.4              |                 | mg/kg | 42.4       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 59.4              |                 | mg/kg | 59.4       |          | 1               | YES        | NV               |
| Copper       | Spike        | 37.3              |                 | mg/kg | 37.3       |          | 1               | YES        | NV               |
| Lead         | Spike        | 27.7              |                 | mg/kg | 27.7       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 184               |                 | mg/kg | 184        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 64.8              |                 | mg/kg | 64.8       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 11.6              |                 | mg/kg | 11.6       |          | 1               | YES        | NV               |
| Silver       | Spike        | 4.1               |                 | mg/kg | 4.1        | *        | 1               | YES        | NV               |
| Thallium     | Spike        | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 88.7              |                 | mg/kg | 88.7       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 94.2              |                 | mg/kg | 94.2       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                               |                               |                         |                       |
|-------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG9         | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 2.                        | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.080      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                               |                           |                         |                       |
|-------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG9         | Method: Metals by ICP-AES | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 2.                    | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                           | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                               |                          |                         |                       |
|-------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG9         | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-02 | pH: 2.                   | Sample Date: 11/18/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.14              | J               | ug/L  | 0.14       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 0.33              | J               | ug/L  | 0.33       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 2.0               | UJ              | ug/L  | 0.55       | J        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | UJ              | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | UJ              | ug/L  | 0.93       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: MC0BG9L | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                    | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 1000              | U               | mg/L  | 1000       | U        | 5               | YES        | NV               |
| Calcium      | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |
| Iron         | Target       | 500               | U               | mg/L  | 500        | U        | 5               | YES        | NV               |
| Magnesium    | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |
| Potassium    | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |
| Sodium       | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                        |                          |               |              |
|------------------------|--------------------------|---------------|--------------|
| Sample Number: MC0BG9L | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                   | Sample Date:  | Sample Time: |
| % Moisture:            |                          | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Barium       | Target       | 50.0              | U               | mg/L  | 50.0       | U        | 5               | YES        | NV               |
| Beryllium    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Cobalt       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Copper       | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Lead         | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Manganese    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Nickel       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Selenium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Silver       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Zinc         | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                               |                               |                         |                       |
|-------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH0         | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-DB-01 | pH: 2.                        | Sample Date: 11/18/2020 | Sample Time: 15:35:00 |
| % Moisture:                   |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.097      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0BH0

Method: Metals by ICP-AES

Matrix: Water

MA Number:

Sample Location: NLR-RB-DB-01

pH: 2.

Sample Date: 11/18/2020

Sample Time: 15:35:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                               |                          |                         |                       |
|-------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH0         | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-DB-01 | pH: 2.                   | Sample Date: 11/18/2020 | Sample Time: 15:35:00 |
| % Moisture:                   |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | J               | ug/L  | 1.0        | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | UJ              | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.30              | J               | ug/L  | 0.30       | J        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | UJ              | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.5               |                 | ug/L  | 2.5        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                               | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.081      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH2          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                           | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14500             |                 | mg/kg | 14500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 762               |                 | mg/kg | 762        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24200             |                 | mg/kg | 24200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1970              |                 | mg/kg | 1970       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 561               | J               | mg/kg | 561        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 575               | U               | mg/kg | 575        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-141-01 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:30:00 |
| % Moisture:                    |                          | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.1              |                 | mg/kg | 38.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.8              |                 | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 21.6              |                 | mg/kg | 21.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 97.1              |                 | mg/kg | 97.1       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.3               |                 | mg/kg | 8.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | U               | mg/kg | 0.59       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.7              |                 | mg/kg | 30.7       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 32.8              |                 | mg/kg | 32.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH3          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                               | % Solids: 86.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.041      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

Sample Number: MC0BH3

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-141-01

pH:

Sample Date: 11/18/2020

Sample Time: 14:40:00

% Moisture:

% Solids: 86.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12400             |                 | mg/kg | 12400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 663               |                 | mg/kg | 663        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23100             |                 | mg/kg | 23100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2330              |                 | mg/kg | 2330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 716               |                 | mg/kg | 716        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 533               | U               | mg/kg | 533        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH3          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141-01 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:40:00 |
| % Moisture:                    |                          | % Solids: 86.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.0              |                 | mg/kg | 32.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.7              |                 | mg/kg | 17.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 180               |                 | mg/kg | 180        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | U               | mg/kg | 0.55       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.5              |                 | mg/kg | 31.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 26.4              |                 | mg/kg | 26.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH4          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                               | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH4          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                           | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9460              |                 | mg/kg | 9460       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2250              |                 | mg/kg | 2250       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17800             |                 | mg/kg | 17800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2020              |                 | mg/kg | 2020       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 761               |                 | mg/kg | 761        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 640               | U               | mg/kg | 640        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH4          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141-01 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:35:00 |
| % Moisture:                    |                          | % Solids: 73.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 48.1              |                 | mg/kg | 48.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.4              |                 | mg/kg | 16.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.8              |                 | mg/kg | 16.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 52.9              |                 | mg/kg | 52.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 216               |                 | mg/kg | 216        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.097             | J               | mg/kg | 0.097      | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 28.4              |                 | mg/kg | 28.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 135               |                 | mg/kg | 135        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                               | % Solids: 81.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.061      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                           | % Solids: 81.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 17700             |                 | mg/kg | 17700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1320              |                 | mg/kg | 1320       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 26000             |                 | mg/kg | 26000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2360              |                 | mg/kg | 2360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 922               |                 | mg/kg | 922        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 560               | U               | mg/kg | 560        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AY8

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121-01 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:00:00 |
| % Moisture:                    |                          | % Solids: 81.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 37.7              |                 | mg/kg | 37.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.0              |                 | mg/kg | 22.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 152               |                 | mg/kg | 152        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.6              |                 | mg/kg | 33.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 29.6              |                 | mg/kg | 29.6       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS710 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS743 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | -0.29             | J               | mg/kg | -0.29      | J        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.75             | J               | mg/kg | -0.75      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | -0.34             | J               | mg/kg | -0.34      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL48 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.028             | J               | mg/kg | 0.028      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBW714 | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBW744 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | -0.54             | J               | ug/L  | -0.54      | J        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -1.6              | J               | ug/L  | -1.6       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | -0.78             | J               | ug/L  | -0.78      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBWL47 | Method: Mercury by Cold Vapor | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AY8

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE:

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink, appearing to read "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0AZ9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc: Nancy Shannon  
508-517-4080

TO: #0002 TDF: #1220074







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 10, 2021

**To:** ESAT Region 3 Project Officer

**From:** Lisa D. Penix  
Validator

Dean Gouveia  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOAZ9

### **Overview**

This data package consisted of twenty (20) soil samples, including a field duplicate sample, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 22, 2020 and additional data dated December 29, 2020.

Rinsate blanks MCOBG9 and MCOBH0 (from SDG MCOAY8) were associated with samples in this SDG and used in the evaluation of this data. Field duplicate MCOBH4 (from SDG MCOAY8) was associated with sample MCOB72 and was used in evaluation of this data.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. A serial dilution issue required estimation of sample data.

### **Minor Problem**

The percent difference (%D) in the ICP-MS serial dilution analysis was outside the control limit (>10%) for vanadium (V) in sample MCOB72. The detected concentration for V is estimated in this sample and has been qualified "J".

**Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb) has been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL in associated samples have been reported at the CRQL and qualified "U".

Rinsate blank MCOBG9 reported concentrations for arsenic (As), chromium (Cr), manganese (Mn) and zinc (Zn) less than the CRQLs. Rinsate blank MCOBHO reported concentrations for Cr and nickel (Ni) less than the CRQLs and for Zn greater than the CRQL. The detected concentration for Zn in associated sample MCOB72 was greater than ten times (>10X) the blank concentration and not qualified based on this finding. Detected concentrations for the remaining analytes in associated sample MCOB72 were greater than the CRQLs and not qualified based on these findings.

Matrix spike, Laboratory duplicate, ICP-AES serial dilution, and Laboratory Control Sample analyses were within control limits.

Concentrations for Mn exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate Mn within the calibration range.

Results were reported from the dilutions.

| Sample(s)                      | Dilution |
|--------------------------------|----------|
| MCOB20, MCOB88, MCOBC5, MCOBE1 | 2X       |
| MCOBC1                         | 5X       |

Results reported for field duplicate pair MCOBH4/MCOB72 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on sample MCOAZ9. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: LCS711

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.3              |                 | mg/kg | 39.3       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.8              |                 | mg/kg | 22.8       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 974               |                 | mg/kg | 974        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 959               |                 | mg/kg | 959        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 985               |                 | mg/kg | 985        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS745 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.2               |                 | mg/kg | 1.2        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-136 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                               | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-136 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11100             |                 | mg/kg | 11100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2460              |                 | mg/kg | 2460       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21200             |                 | mg/kg | 21200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2400              |                 | mg/kg | 2400       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 529               | J               | mg/kg | 529        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 621               | U               | mg/kg | 621        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-136 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                          | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.4               |                 | mg/kg | 3.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 44.5              |                 | mg/kg | 44.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.59              | J               | mg/kg | 0.59       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.23              | J               | mg/kg | 0.23       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.3              |                 | mg/kg | 17.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.0              |                 | mg/kg | 14.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 35.1              |                 | mg/kg | 35.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 288               |                 | mg/kg | 288        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.9              |                 | mg/kg | 33.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 50.0              |                 | mg/kg | 50.0       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B06       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                               | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B06       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                           | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11100             |                 | mg/kg | 11100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1660              |                 | mg/kg | 1660       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20400             |                 | mg/kg | 20400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2120              |                 | mg/kg | 2120       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1160              |                 | mg/kg | 1160       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 617               | U               | mg/kg | 617        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B06       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-143 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                          | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.4              |                 | mg/kg | 38.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.60              | J               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.8              |                 | mg/kg | 16.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.6              |                 | mg/kg | 13.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 39.0              |                 | mg/kg | 39.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 266               |                 | mg/kg | 266        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.3              |                 | mg/kg | 30.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 56.4              |                 | mg/kg | 56.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B09

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-146

pH:

Sample Date: 11/19/2020

Sample Time: 10:25:00

% Moisture:

% Solids: 69.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | U               | mg/kg | 0.080      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B09       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-146 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                           | % Solids: 69.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11000             |                 | mg/kg | 11000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1480              |                 | mg/kg | 1480       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22500             |                 | mg/kg | 22500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2450              |                 | mg/kg | 2450       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 719               |                 | mg/kg | 719        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 695               | U               | mg/kg | 695        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B09       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-146 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                          | % Solids: 69.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 44.7              |                 | mg/kg | 44.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.60              | J               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.8              |                 | mg/kg | 16.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 26.4              |                 | mg/kg | 26.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 285               |                 | mg/kg | 285        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 33.5              |                 | mg/kg | 33.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 57.0              |                 | mg/kg | 57.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B19

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-156

pH:

Sample Date: 11/19/2020

Sample Time: 13:55:00

% Moisture:

% Solids: 69.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B19

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-156

pH:

Sample Date: 11/19/2020

Sample Time: 13:55:00

% Moisture:

% Solids: 69.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8760              |                 | mg/kg | 8760       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1750              |                 | mg/kg | 1750       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15000             |                 | mg/kg | 15000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1360              |                 | mg/kg | 1360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 477               | J               | mg/kg | 477        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 689               | U               | mg/kg | 689        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B19       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-156 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                          | % Solids: 69.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.62       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 44.3              |                 | mg/kg | 44.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.4              |                 | mg/kg | 12.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.6              |                 | mg/kg | 14.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 71.7              |                 | mg/kg | 71.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 237               |                 | mg/kg | 237        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.6              |                 | mg/kg | 22.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 44.1              |                 | mg/kg | 44.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B20       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-157 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 08:05:00 |
| % Moisture:                 |                               | % Solids: 81.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B20

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-157

pH:

Sample Date: 11/19/2020

Sample Time: 08:05:00

% Moisture:

% Solids: 81.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8790              |                 | mg/kg | 8790       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 899               |                 | mg/kg | 899        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19200             |                 | mg/kg | 19200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1520              |                 | mg/kg | 1520       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 772               |                 | mg/kg | 772        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 587               | U               | mg/kg | 587        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B20       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-157 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 08:05:00 |
| % Moisture:                 |                          | % Solids: 81.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.4              |                 | mg/kg | 43.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.9              |                 | mg/kg | 14.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.1              |                 | mg/kg | 18.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 77.4              |                 | mg/kg | 77.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 337               |                 | mg/kg | 337        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.2              |                 | mg/kg | 27.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 53.3              |                 | mg/kg | 53.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B23

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SS-160

pH:

Sample Date: 11/19/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 81.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B23

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-160

pH:

Sample Date: 11/19/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 81.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13800             |                 | mg/kg | 13800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 705               |                 | mg/kg | 705        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24700             |                 | mg/kg | 24700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1750              |                 | mg/kg | 1750       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 775               |                 | mg/kg | 775        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 566               | U               | mg/kg | 566        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B23       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-160 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                          | % Solids: 81.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.5              |                 | mg/kg | 38.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.59              |                 | mg/kg | 0.59       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.4              |                 | mg/kg | 20.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.2              |                 | mg/kg | 13.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 34.2              |                 | mg/kg | 34.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 158               |                 | mg/kg | 158        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.086             | J               | mg/kg | 0.086      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.4              |                 | mg/kg | 32.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 49.0              |                 | mg/kg | 49.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B67       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-136 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                               | % Solids: 70.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B67

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-136

pH:

Sample Date: 11/19/2020

Sample Time: 09:35:00

% Moisture:

% Solids: 70.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9550              |                 | mg/kg | 9550       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2290              |                 | mg/kg | 2290       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18100             |                 | mg/kg | 18100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1970              |                 | mg/kg | 1970       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 637               | J               | mg/kg | 637        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 684               | U               | mg/kg | 684        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B67       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-136 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                          | % Solids: 70.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 39.0              |                 | mg/kg | 39.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.20              | J               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.5              |                 | mg/kg | 13.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 29.5              |                 | mg/kg | 29.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 127               |                 | mg/kg | 127        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.088             | J               | mg/kg | 0.088      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.4              |                 | mg/kg | 25.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 52.9              |                 | mg/kg | 52.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                               | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                           | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9520              |                 | mg/kg | 9520       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1980              |                 | mg/kg | 1980       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18800             |                 | mg/kg | 18800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2020              |                 | mg/kg | 2020       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 966               |                 | mg/kg | 966        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 677               | U               | mg/kg | 677        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-141 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.78       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 48.4              |                 | mg/kg | 48.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.31              | J               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.5              |                 | mg/kg | 15.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.7              |                 | mg/kg | 17.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 49.4              |                 | mg/kg | 49.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 210               |                 | mg/kg | 210        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.8              | J               | mg/kg | 29.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 113               |                 | mg/kg | 113        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B72D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 14:55:00

% Moisture:

% Solids: 72.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:            |                           | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9330              |                 | mg/kg | 9330       |          | 1               | YES        | NV               |
| Calcium      | Target       | 1910              |                 | mg/kg | 1910       |          | 1               | YES        | NV               |
| Iron         | Target       | 18200             |                 | mg/kg | 18200      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1980              |                 | mg/kg | 1980       |          | 1               | YES        | NV               |
| Potassium    | Target       | 879               |                 | mg/kg | 879        |          | 1               | YES        | NV               |
| Sodium       | Target       | 677               | U               | mg/kg | 677        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:            |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.72              | J               | mg/kg | 0.72       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | NV               |
| Barium       | Target       | 50.1              |                 | mg/kg | 50.1       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.31              | J               | mg/kg | 0.31       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 17.0              |                 | mg/kg | 17.0       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | NV               |
| Copper       | Target       | 18.0              |                 | mg/kg | 18.0       |          | 1               | YES        | NV               |
| Lead         | Target       | 50.7              |                 | mg/kg | 50.7       |          | 1               | YES        | NV               |
| Manganese    | Target       | 216               |                 | mg/kg | 216        |          | 1               | YES        | NV               |
| Nickel       | Target       | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.099             | J               | mg/kg | 0.099      | J        | 1               | YES        | NV               |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 30.5              |                 | mg/kg | 30.5       |          | 1               | YES        | NV               |
| Zinc         | Target       | 117               |                 | mg/kg | 117        |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B72L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 72.4 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9500              |                 | mg/kg | 9500       |          | 5               | YES        | NV               |
| Calcium      | Target       | 2000              | J               | mg/kg | 2000       | J        | 5               | YES        | NV               |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 2030              | J               | mg/kg | 2030       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 853               | J               | mg/kg | 853        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3390              | U               | mg/kg | 3390       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B72L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 72.4 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 6.8               | U               | mg/kg | 6.8        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 5.2               |                 | mg/kg | 5.2        |          | 5               | YES        | NV               |
| Barium       | Target       | 50.6              |                 | mg/kg | 50.6       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 14.7              |                 | mg/kg | 14.7       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 5               | YES        | NV               |
| Copper       | Target       | 17.9              |                 | mg/kg | 17.9       |          | 5               | YES        | NV               |
| Lead         | Target       | 52.1              |                 | mg/kg | 52.1       |          | 5               | YES        | NV               |
| Manganese    | Target       | 211               |                 | mg/kg | 211        |          | 5               | YES        | NV               |
| Nickel       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 5               | YES        | NV               |
| Selenium     | Target       | 17.1              | U               | mg/kg | 17.1       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.5              |                 | mg/kg | 25.5       | X*       | 5               | YES        | NV               |
| Zinc         | Target       | 114               |                 | mg/kg | 114        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:            |                               | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.79              |                 | mg/kg | 0.79       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEx

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B72S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:55:00 |
| % Moisture:            |                          | % Solids: 72.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | NV               |
| Barium       | Spike        | 329               |                 | mg/kg | 329        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 44.5              |                 | mg/kg | 44.5       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 75.9              |                 | mg/kg | 75.9       |          | 1               | YES        | NV               |
| Copper       | Spike        | 55.1              |                 | mg/kg | 55.1       |          | 1               | YES        | NV               |
| Lead         | Spike        | 52.7              |                 | mg/kg | 52.7       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 293               |                 | mg/kg | 293        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 78.7              |                 | mg/kg | 78.7       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 13.4              |                 | mg/kg | 13.4       |          | 1               | YES        | NV               |
| Silver       | Spike        | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 103               |                 | mg/kg | 103        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 192               |                 | mg/kg | 192        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B74       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-143 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                               | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.23              |                 | mg/kg | 0.23       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B74

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-143

pH:

Sample Date: 11/19/2020

Sample Time: 11:50:00

% Moisture:

% Solids: 72.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9340              |                 | mg/kg | 9340       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4560              |                 | mg/kg | 4560       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17900             |                 | mg/kg | 17900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2360              |                 | mg/kg | 2360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 969               |                 | mg/kg | 969        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 645               | U               | mg/kg | 645        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B74       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-143 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:50:00 |
| % Moisture:                 |                          | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 47.5              |                 | mg/kg | 47.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 34.3              |                 | mg/kg | 34.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 36.0              |                 | mg/kg | 36.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 58.4              |                 | mg/kg | 58.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 230               |                 | mg/kg | 230        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.6              |                 | mg/kg | 13.6       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | U               | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.5              |                 | mg/kg | 29.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 156               |                 | mg/kg | 156        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B77       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-146 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                               | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.054      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B77

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-146

pH:

Sample Date: 11/19/2020

Sample Time: 10:30:00

% Moisture:

% Solids: 77.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13400             |                 | mg/kg | 13400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1980              |                 | mg/kg | 1980       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22600             |                 | mg/kg | 22600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 8320              |                 | mg/kg | 8320       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1400              |                 | mg/kg | 1400       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 634               | U               | mg/kg | 634        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B77       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-146 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:30:00 |
| % Moisture:                 |                          | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 44.1              |                 | mg/kg | 44.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 46.1              |                 | mg/kg | 46.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.8              |                 | mg/kg | 11.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 16.3              |                 | mg/kg | 16.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 176               |                 | mg/kg | 176        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 17.1              |                 | mg/kg | 17.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.9              |                 | mg/kg | 32.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 79.5              |                 | mg/kg | 79.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B87       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-156 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                               | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B87       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-156 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                           | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9750              |                 | mg/kg | 9750       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5280              |                 | mg/kg | 5280       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19200             |                 | mg/kg | 19200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1900              |                 | mg/kg | 1900       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 514               | J               | mg/kg | 514        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 611               | U               | mg/kg | 611        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B87       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-156 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                          | % Solids: 77.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 45.6              |                 | mg/kg | 45.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 84.8              |                 | mg/kg | 84.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 273               |                 | mg/kg | 273        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.085             | J               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.0              |                 | mg/kg | 29.0       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 74.6              |                 | mg/kg | 74.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B88

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-157

pH:

Sample Date: 11/19/2020

Sample Time: 08:10:00

% Moisture:

% Solids: 80.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B88       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-157 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                           | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11700             |                 | mg/kg | 11700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 904               |                 | mg/kg | 904        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21900             |                 | mg/kg | 21900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2150              |                 | mg/kg | 2150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1470              |                 | mg/kg | 1470       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 583               | U               | mg/kg | 583        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B88       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-157 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 08:10:00 |
| % Moisture:                 |                          | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 107               |                 | mg/kg | 107        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.1              |                 | mg/kg | 25.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 15.7              |                 | mg/kg | 15.7       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 20.5              |                 | mg/kg | 20.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 48.1              |                 | mg/kg | 48.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 353               |                 | mg/kg | 353        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 49.0              |                 | mg/kg | 49.0       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 110               |                 | mg/kg | 110        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B91       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-160 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                               | % Solids: 71.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.15              |                 | mg/kg | 0.15       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

Sample Number: MC0B91

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-160

pH:

Sample Date: 11/19/2020

Sample Time: 11:55:00

% Moisture:

% Solids: 71.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13200             |                 | mg/kg | 13200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2330              |                 | mg/kg | 2330       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22900             |                 | mg/kg | 22900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2330              |                 | mg/kg | 2330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 818               |                 | mg/kg | 818        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 651               | U               | mg/kg | 651        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B91       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-160 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                          | % Solids: 71.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 8.0               |                 | mg/kg | 8.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 64.1              |                 | mg/kg | 64.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.63              | J               | mg/kg | 0.63       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.8              |                 | mg/kg | 26.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 47.1              |                 | mg/kg | 47.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 320               |                 | mg/kg | 320        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.8              |                 | mg/kg | 32.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 108               |                 | mg/kg | 108        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                               | % Solids: 79.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.058      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                           | % Solids: 79.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14800             |                 | mg/kg | 14800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 723               |                 | mg/kg | 723        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 27800             |                 | mg/kg | 27800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2670              |                 | mg/kg | 2670       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 912               |                 | mg/kg | 912        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 602               | U               | mg/kg | 602        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-136 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                          | % Solids: 79.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.8               |                 | mg/kg | 2.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 34.4              |                 | mg/kg | 34.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.69              |                 | mg/kg | 0.69       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.4              |                 | mg/kg | 18.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 617               |                 | mg/kg | 617        | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.3              |                 | mg/kg | 36.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 27.5              |                 | mg/kg | 27.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                               | % Solids: 89.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.069      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                           | % Solids: 89.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14700             |                 | mg/kg | 14700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1060              |                 | mg/kg | 1060       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24500             |                 | mg/kg | 24500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2410              |                 | mg/kg | 2410       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 849               |                 | mg/kg | 849        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 130               | J               | mg/kg | 130        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-143 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                          | % Solids: 89.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.96              | U               | mg/kg | 0.96       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.8              |                 | mg/kg | 38.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              |                 | mg/kg | 0.56       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 16.1              |                 | mg/kg | 16.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 268               |                 | mg/kg | 268        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.4               | U               | mg/kg | 2.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.48              | U               | mg/kg | 0.48       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.2              |                 | mg/kg | 31.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 46.8              |                 | mg/kg | 46.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                               | % Solids: 81.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.031      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC6       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 81.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13200             |                 | mg/kg | 13200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 556               | J               | mg/kg | 556        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 26400             |                 | mg/kg | 26400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2630              |                 | mg/kg | 2630       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 881               |                 | mg/kg | 881        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 597               | U               | mg/kg | 597        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-146 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                          | % Solids: 81.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 29.3              |                 | mg/kg | 29.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.58              | J               | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.3              |                 | mg/kg | 11.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 260               |                 | mg/kg | 260        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.5              |                 | mg/kg | 32.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 25.6              |                 | mg/kg | 25.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                               | % Solids: 84.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.030      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC8       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                           | % Solids: 84.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10200             |                 | mg/kg | 10200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 499               | J               | mg/kg | 499        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 25200             |                 | mg/kg | 25200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2050              |                 | mg/kg | 2050       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 586               |                 | mg/kg | 586        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 545               | U               | mg/kg | 545        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0AZ9

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-156 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                          | % Solids: 84.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.2               |                 | mg/kg | 3.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 28.0              |                 | mg/kg | 28.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.3              |                 | mg/kg | 20.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 111               |                 | mg/kg | 111        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.2              |                 | mg/kg | 31.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 24.1              |                 | mg/kg | 24.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                               | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.039      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                           | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13200             |                 | mg/kg | 13200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 530               | J               | mg/kg | 530        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 26100             |                 | mg/kg | 26100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1900              |                 | mg/kg | 1900       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 681               |                 | mg/kg | 681        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 580               | U               | mg/kg | 580        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-157 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                          | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 30.0              |                 | mg/kg | 30.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.7               |                 | mg/kg | 7.7        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 91.9              |                 | mg/kg | 91.9       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 35.2              |                 | mg/kg | 35.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 25.2              |                 | mg/kg | 25.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                               | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.030      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                           | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8310              |                 | mg/kg | 8310       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 271               | J               | mg/kg | 271        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 29700             |                 | mg/kg | 29700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1900              |                 | mg/kg | 1900       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 695               |                 | mg/kg | 695        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 559               | U               | mg/kg | 559        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-136 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:40:00 |
| % Moisture:                 |                          | % Solids: 85.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.9               |                 | mg/kg | 6.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 24.4              |                 | mg/kg | 24.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.071             | J               | mg/kg | 0.071      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.7              |                 | mg/kg | 12.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 242               |                 | mg/kg | 242        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.51              | U               | mg/kg | 0.51       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.3              |                 | mg/kg | 21.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 25.0              |                 | mg/kg | 25.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                               | % Solids: 81.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.034      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                           | % Solids: 81.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11000             |                 | mg/kg | 11000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 804               |                 | mg/kg | 804        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20200             |                 | mg/kg | 20200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2790              |                 | mg/kg | 2790       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 872               |                 | mg/kg | 872        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 101               | J               | mg/kg | 101        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-143 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                          | % Solids: 81.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 50.5              |                 | mg/kg | 50.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.88              |                 | mg/kg | 0.88       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.098             | J               | mg/kg | 0.098      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.3              |                 | mg/kg | 22.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.5              |                 | mg/kg | 12.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 360               |                 | mg/kg | 360        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 43.1              |                 | mg/kg | 43.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 32.0              |                 | mg/kg | 32.0       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS711 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS745 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL49 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.015             | J               | mg/kg | 0.015      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0AZ9

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE:

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0B24 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

**(b) (4)**

TO: #0002 TDF: #1220081





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 12, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOB24

### **Overview**

This data package consisted of eighteen (18) soil samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 24, 2020.

### **Summary**

Internal standard issues required rejection of sample data. Serial dilution and blank contamination issues required estimation of sample data.

### **Major Problem**

Percent relative intensities for internal standards terbium and holmium were outside the upper control limit (>125%) in the initial analysis of sample MCOB26. This sample was reanalyzed at a two-fold (2X) dilution with %RI reported within control limits for all internal standards. The results from the diluted analysis were not reported. Quantitation limits and results reported from the initial analysis are unusable for associated analytes antimony (Sb), arsenic (As), barium (Ba), lead (Pb) and thallium (Tl) and have been qualified "R".

### **Minor Problems**

The percent difference (%D) in the ICP-AES serial dilution analysis was outside the control limit (>10%) for Fe in sample MCOB24. The detected concentration for Fe is estimated in this sample and has been qualified "J".

Laboratory instrumentation reported negative values for selenium (Se) and silver (Ag) greater than the absolute value of the Method Detection Limits (MDLs) in blank analyses. Laboratory instrumentation reported negative values for Hg greater than the absolute value of the MDL in blank analyses. Detected concentrations for these analytes less than Contract Required Quantitation Limits (CRQLs) were reported at the CRQL and qualified "UJ". Quantitation limits for these analytes are estimated and qualified "UJ".

### **Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Target analyte Sb, cadmium (Cd) and Tl have been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL have been reported at the CRQL and qualified "U".

Target analyte Hg matrix spike, laboratory duplicate, ICP-MS serial dilution, and Laboratory Control Sample analyses were within control limits.

The ICP-MS matrix spike recovery was outside control limits for Pb in sample MCOB24. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Percent relative intensities for internal standards lithium, terbium, and holmium were outside the upper control limit (>125%) in the initial analysis of sample MCOB24. This sample was reanalyzed at a two-fold (2X) dilution with %RI within control limits for all internal standards. All ICP-MS analytes, regardless of internal standard association, were reported from the diluted analysis without qualification. Quantitation limits were elevated due to the dilution.

Percent relative intensities for internal standards lithium, terbium, and holmium were outside the upper control limit (>125%) in the initial analysis of sample MCOB27. This sample was reanalyzed at a two-fold (2X) dilution with %RI within control limits for all internal standards. Associated analytes Sb, As, Ba, beryllium (Be), Pb and Tl were reported from the diluted analysis, without qualification. Internal standard indium was within control limits in the initial analysis but associated analytes Cd, cobalt (Co), and copper (Cu) were reported from the diluted analysis, without qualification. Quantitation limits were elevated due to the dilution. Internal standard rhodium was within control limits in the initial analysis and associated analytes chromium (Cr), nickel (Ni), Se, Ag, vanadium (V) and zinc (Zn) were reported from the initial analysis.

The percent relative intensity for internal standard lithium was outside the upper control limit (>125%) in the initial analysis of sample MCOBC7. This sample was reanalyzed at a two-fold (2X) dilution with %RI

within control limits for all internal standards. Associated analyte Be was reported from the diluted analysis, without qualification. Internal standards terbium and holmium were within control limits in the initial analysis but associated analytes Sb, As, Ba, Pb and Tl were reported from the diluted analysis, without qualification. Quantitation limits were elevated due to the dilution. Internal standards indium and rhodium were within control limits in the initial analysis and associated analytes Cd, Cr, Co, and Cu, Ni, Se, Ag, V and Zn were reported from the initial analysis.

Percent relative intensities for internal standards lithium and holmium were outside the upper control limit (>125%) in the initial analysis of sample MCOBD0. This sample was reanalyzed at a two-fold (2X) dilution with %RI within control limits for all internal standards. Associated analytes Be, Pb and Tl were reported from the diluted analysis, without qualification. Internal standard terbium was within control limits in the initial analysis but associated analytes Sb, As, and Ba were reported from the diluted analysis, without qualification. Quantitation limits were elevated due to the dilution. Internal standards indium and rhodium were within control limits in the initial analysis and associated analytes Cd, Cr, Co, Cu, Ni, Se, Ag, V and Zn were reported from the initial analysis.

Percent relative intensities for internal standards lithium, terbium, and holmium were outside the upper control limit (>125%) in the initial analysis of sample MCOBD1. This sample was reanalyzed at a two-fold (2X) dilution with %RI within control limits for all internal standards. Associated analytes Sb, As, Ba, Be, Pb and Tl were reported from the diluted analysis, without qualification. Quantitation limits were elevated due to the dilution.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| Sample(s)                                      | Analyte(s)     | Dilution |
|--|----------------|----------|
| MCOB24, MCOB92, MCOB97, MCOBD0, MCOBE3, MCOBE5 | manganese (Mn) | 2X       |
| MCOB27   | Pb, Mn         | 2X       |
| MCOBC7   | Mn             | 10X      |

Sample calculation checks were performed on sample MCOB24. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.



**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

Sample Number: LCS716

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 38.4              |                 | mg/kg | 38.4       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1060              |                 | mg/kg | 1060       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 955               |                 | mg/kg | 955        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 956               |                 | mg/kg | 956        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 968               |                 | mg/kg | 968        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS748 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.6               |                 | mg/kg | 9.6        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.92              |                 | mg/kg | 0.92       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.79              |                 | mg/kg | 0.79       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B24       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-161 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                               | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.15              |                 | mg/kg | 0.15       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

Sample Number: MC0B24

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-161

pH:

Sample Date: 11/19/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 76.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12000             |                 | mg/kg | 12000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2740              |                 | mg/kg | 2740       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19200             | J               | mg/kg | 19200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1880              |                 | mg/kg | 1880       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 963               |                 | mg/kg | 963        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 635               | U               | mg/kg | 635        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B24       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-161 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                          | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.4               | U               | mg/kg | 0.94       | JD       | 2               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        | D        | 2               | YES        | S4VEM            |
| Barium       | Target       | 111               |                 | mg/kg | 111        | D        | 2               | YES        | S4VEM            |
| Beryllium    | Target       | 0.70              | J               | mg/kg | 0.70       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 1.2               | U               | mg/kg | 0.48       | JD       | 2               | YES        | S4VEM            |
| Chromium     | Target       | 16.6              |                 | mg/kg | 16.6       | D        | 2               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        | D        | 2               | YES        | S4VEM            |
| Copper       | Target       | 18.5              |                 | mg/kg | 18.5       | D        | 2               | YES        | S4VEM            |
| Lead         | Target       | 203               |                 | mg/kg | 203        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 407               |                 | mg/kg | 407        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 8.6               |                 | mg/kg | 8.6        | D        | 2               | YES        | S4VEM            |
| Selenium     | Target       | 6.1               | UJ              | mg/kg | 6.1        | UD       | 2               | YES        | S4VEM            |
| Silver       | Target       | 1.2               | UJ              | mg/kg | 1.2        | UD       | 2               | YES        | S4VEM            |
| Thallium     | Target       | 1.2               | U               | mg/kg | 1.2        | UD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 25.6              |                 | mg/kg | 25.6       | D        | 2               | YES        | S4VEM            |
| Zinc         | Target       | 137               |                 | mg/kg | 137        | D        | 2               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B24D | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:            |                               | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

Sample Number: MC0B24D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 76.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12000             |                 | mg/kg | 12000      |          | 1               | YES        | NV               |
| Calcium      | Target       | 2760              |                 | mg/kg | 2760       |          | 1               | YES        | NV               |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1890              |                 | mg/kg | 1890       |          | 1               | YES        | NV               |
| Potassium    | Target       | 945               |                 | mg/kg | 945        |          | 1               | YES        | NV               |
| Sodium       | Target       | 635               | U               | mg/kg | 635        | U        | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B24D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:            |                          | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.77              | J               | mg/kg | 0.77       | JD       | 2               | YES        | NV               |
| Arsenic      | Target       | 4.0               |                 | mg/kg | 4.0        | D        | 2               | YES        | NV               |
| Barium       | Target       | 113               |                 | mg/kg | 113        | D        | 2               | YES        | NV               |
| Beryllium    | Target       | 0.68              | J               | mg/kg | 0.68       | JD       | 2               | YES        | NV               |
| Cadmium      | Target       | 0.46              | J               | mg/kg | 0.46       | JD       | 2               | YES        | NV               |
| Chromium     | Target       | 16.7              |                 | mg/kg | 16.7       | D        | 2               | YES        | NV               |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        | D        | 2               | YES        | NV               |
| Copper       | Target       | 18.4              |                 | mg/kg | 18.4       | D        | 2               | YES        | NV               |
| Lead         | Target       | 206               |                 | mg/kg | 206        | D        | 2               | YES        | NV               |
| Manganese    | Target       | 413               |                 | mg/kg | 413        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 8.7               |                 | mg/kg | 8.7        | D        | 2               | YES        | NV               |
| Selenium     | Target       | 6.1               | U               | mg/kg | 6.1        | UD       | 2               | YES        | NV               |
| Silver       | Target       | 1.2               | U               | mg/kg | 1.2        | UD       | 2               | YES        | NV               |
| Thallium     | Target       | 1.2               | U               | mg/kg | 1.2        | UD       | 2               | YES        | NV               |
| Vanadium     | Target       | 25.8              |                 | mg/kg | 25.8       | D        | 2               | YES        | NV               |
| Zinc         | Target       | 140               |                 | mg/kg | 140        | D        | 2               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B24L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 76.4 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12900             |                 | mg/kg | 12900      |          | 5               | YES        | NV               |
| Calcium      | Target       | 3060              | J               | mg/kg | 3060       | J        | 5               | YES        | NV               |
| Iron         | Target       | 21900             |                 | mg/kg | 21900      | X*       | 5               | YES        | NV               |
| Magnesium    | Target       | 2060              | J               | mg/kg | 2060       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 1010              | J               | mg/kg | 1010       | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3180              | U               | mg/kg | 3180       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B24L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 76.4 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 12.1              | U               | mg/kg | 12.1       | UD       | 10              | YES        | NV               |
| Arsenic      | Target       | 4.2               | J               | mg/kg | 4.2        | JD       | 10              | YES        | NV               |
| Barium       | Target       | 117               |                 | mg/kg | 117        | D        | 10              | YES        | NV               |
| Beryllium    | Target       | 6.1               | U               | mg/kg | 6.1        | UD       | 10              | YES        | NV               |
| Cadmium      | Target       | 6.1               | U               | mg/kg | 6.1        | UD       | 10              | YES        | NV               |
| Chromium     | Target       | 16.4              |                 | mg/kg | 16.4       | D        | 10              | YES        | NV               |
| Cobalt       | Target       | 5.6               | J               | mg/kg | 5.6        | JD       | 10              | YES        | NV               |
| Copper       | Target       | 19.0              |                 | mg/kg | 19.0       | D        | 10              | YES        | NV               |
| Lead         | Target       | 220               |                 | mg/kg | 220        | D        | 10              | YES        | NV               |
| Manganese    | Target       | 407               |                 | mg/kg | 407        | D        | 10              | YES        | NV               |
| Nickel       | Target       | 8.7               |                 | mg/kg | 8.7        | D        | 10              | YES        | NV               |
| Selenium     | Target       | 30.3              | U               | mg/kg | 30.3       | UD       | 10              | YES        | NV               |
| Silver       | Target       | 6.1               | U               | mg/kg | 6.1        | UD       | 10              | YES        | NV               |
| Thallium     | Target       | 6.1               | U               | mg/kg | 6.1        | UD       | 10              | YES        | NV               |
| Vanadium     | Target       | 25.2              | J               | mg/kg | 25.2       | JD       | 10              | YES        | NV               |
| Zinc         | Target       | 141               |                 | mg/kg | 141        | D        | 10              | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

Sample Number: MC0B24S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 10:45:00

% Moisture:

% Solids: 76.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.78              |                 | mg/kg | 0.78       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B24S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:45:00 |
| % Moisture:            |                          | % Solids: 76.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.3              |                 | mg/kg | 11.3       | D        | 2               | YES        | NV               |
| Arsenic      | Spike        | 8.0               |                 | mg/kg | 8.0        | D        | 2               | YES        | NV               |
| Barium       | Spike        | 333               |                 | mg/kg | 333        | D        | 2               | YES        | NV               |
| Beryllium    | Spike        | 6.5               |                 | mg/kg | 6.5        | D        | 2               | YES        | NV               |
| Cadmium      | Spike        | 6.5               |                 | mg/kg | 6.5        | D        | 2               | YES        | NV               |
| Chromium     | Spike        | 41.7              |                 | mg/kg | 41.7       | D        | 2               | YES        | NV               |
| Cobalt       | Spike        | 59.3              |                 | mg/kg | 59.3       | D        | 2               | YES        | NV               |
| Copper       | Spike        | 47.2              |                 | mg/kg | 47.2       | D        | 2               | YES        | NV               |
| Lead         | Spike        | 212               |                 | mg/kg | 212        | D        | 2               | YES        | NV               |
| Manganese    | Spike        | 475               |                 | mg/kg | 475        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 63.5              |                 | mg/kg | 63.5       | D        | 2               | YES        | NV               |
| Selenium     | Spike        | 10.8              |                 | mg/kg | 10.8       | D        | 2               | YES        | NV               |
| Silver       | Spike        | 5.6               |                 | mg/kg | 5.6        | D        | 2               | YES        | NV               |
| Thallium     | Spike        | 5.9               |                 | mg/kg | 5.9        | D        | 2               | YES        | NV               |
| Vanadium     | Spike        | 86.7              |                 | mg/kg | 86.7       | D        | 2               | YES        | NV               |
| Zinc         | Spike        | 202               |                 | mg/kg | 202        | D        | 2               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B25       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                               | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.012      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B25       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                           | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 5060              |                 | mg/kg | 5060       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 570               |                 | mg/kg | 570        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 9480              |                 | mg/kg | 9480       | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 703               |                 | mg/kg | 703        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 275               | J               | mg/kg | 275        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 562               | U               | mg/kg | 562        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B25       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-162 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                          | % Solids: 84.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.23       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.077             | J               | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.57              | U               | mg/kg | 0.088      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 15.5              |                 | mg/kg | 15.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 129               |                 | mg/kg | 129        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | UJ              | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 135               |                 | mg/kg | 135        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B26       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                               | % Solids: 78.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.22              |                 | mg/kg | 0.22       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B26       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                           | % Solids: 78.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7170              |                 | mg/kg | 7170       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2420              |                 | mg/kg | 2420       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15500             |                 | mg/kg | 15500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1470              |                 | mg/kg | 1470       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1350              |                 | mg/kg | 1350       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 618               | U               | mg/kg | 618        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B26       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-163 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                          | % Solids: 78.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | R               | mg/kg | 0.76       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.0               | R               | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 80.3              | R               | mg/kg | 80.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.9              |                 | mg/kg | 14.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 24.2              |                 | mg/kg | 24.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 171               | R               | mg/kg | 171        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 231               |                 | mg/kg | 231        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.0               |                 | mg/kg | 8.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | UJ              | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | R               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 26.0              |                 | mg/kg | 26.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 128               |                 | mg/kg | 128        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B27       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                               | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.41              |                 | mg/kg | 0.41       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B27       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                           | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8730              |                 | mg/kg | 8730       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2600              |                 | mg/kg | 2600       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16600             |                 | mg/kg | 16600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1380              |                 | mg/kg | 1380       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 786               |                 | mg/kg | 786        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 649               | U               | mg/kg | 649        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B27       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-164 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                          | % Solids: 73.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.6               | U               | mg/kg | 0.98       | JD       | 2               | YES        | S4VEM            |
| Arsenic      | Target       | 6.4               |                 | mg/kg | 6.4        | D        | 2               | YES        | S4VEM            |
| Barium       | Target       | 112               |                 | mg/kg | 112        | D        | 2               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | J               | mg/kg | 0.62       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 1.3               | U               | mg/kg | 0.64       | JD       | 2               | YES        | S4VEM            |
| Chromium     | Target       | 19.2              |                 | mg/kg | 19.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.9               |                 | mg/kg | 7.9        | D        | 2               | YES        | S4VEM            |
| Copper       | Target       | 29.2              |                 | mg/kg | 29.2       | D        | 2               | YES        | S4VEM            |
| Lead         | Target       | 613               |                 | mg/kg | 613        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 353               |                 | mg/kg | 353        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 0.82       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | UJ              | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.3               | U               | mg/kg | 1.3        | UD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 39.3              |                 | mg/kg | 39.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 227               |                 | mg/kg | 227        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B29       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                               | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              |                 | mg/kg | 0.12       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B29       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                           | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12100             |                 | mg/kg | 12100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2520              |                 | mg/kg | 2520       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21100             |                 | mg/kg | 21100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1690              |                 | mg/kg | 1690       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 620               |                 | mg/kg | 620        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 596               | U               | mg/kg | 596        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B29       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-166 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:00:00 |
| % Moisture:                 |                          | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 55.2              |                 | mg/kg | 55.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.59              | U               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.9              |                 | mg/kg | 21.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 28.2              |                 | mg/kg | 28.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 114               |                 | mg/kg | 114        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 180               |                 | mg/kg | 180        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.4               |                 | mg/kg | 7.4        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | UJ              | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.9              |                 | mg/kg | 29.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 75.3              |                 | mg/kg | 75.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B92       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-161 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                               | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.24              |                 | mg/kg | 0.24       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B92       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-161 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                           | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12000             |                 | mg/kg | 12000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1360              |                 | mg/kg | 1360       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21200             |                 | mg/kg | 21200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2020              |                 | mg/kg | 2020       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 610               | U               | mg/kg | 610        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B92       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-161 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                          | % Solids: 77.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 60.1              |                 | mg/kg | 60.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.60              |                 | mg/kg | 0.60       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.59              | U               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.0              |                 | mg/kg | 17.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.0              |                 | mg/kg | 18.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 82.9              |                 | mg/kg | 82.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 388               |                 | mg/kg | 388        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | UJ              | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.3              |                 | mg/kg | 29.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 86.3              |                 | mg/kg | 86.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B93       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-162 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                               | % Solids: 77.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.078      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B93       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-162 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                           | % Solids: 77.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7980              |                 | mg/kg | 7980       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 851               |                 | mg/kg | 851        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15000             |                 | mg/kg | 15000      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1360              |                 | mg/kg | 1360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 467               | J               | mg/kg | 467        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 633               | U               | mg/kg | 633        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B93       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-162 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                          | % Solids: 77.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 33.0              |                 | mg/kg | 33.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 11.3              |                 | mg/kg | 11.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.9              |                 | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 90.2              |                 | mg/kg | 90.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 255               |                 | mg/kg | 255        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | UJ              | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.1              |                 | mg/kg | 21.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 80.3              |                 | mg/kg | 80.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B94       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-163 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                               | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.21              |                 | mg/kg | 0.21       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B94       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                           | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4600              |                 | mg/kg | 4600       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 28300             |                 | mg/kg | 28300      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2520              |                 | mg/kg | 2520       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1720              |                 | mg/kg | 1720       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 649               | U               | mg/kg | 649        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B94       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-163 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                          | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 94.4              |                 | mg/kg | 94.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.66              | U               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.8              |                 | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 30.1              |                 | mg/kg | 30.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 185               |                 | mg/kg | 185        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 330               |                 | mg/kg | 330        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | UJ              | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.9              |                 | mg/kg | 24.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 162               |                 | mg/kg | 162        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B95       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-164 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                               | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.30              |                 | mg/kg | 0.30       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B95       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-164 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                           | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10900             |                 | mg/kg | 10900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1940              |                 | mg/kg | 1940       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23500             |                 | mg/kg | 23500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1530              |                 | mg/kg | 1530       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 847               |                 | mg/kg | 847        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 642               | U               | mg/kg | 642        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B95       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-164 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                          | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 94.1              |                 | mg/kg | 94.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.66              | U               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.3              |                 | mg/kg | 18.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 29.4              |                 | mg/kg | 29.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 184               |                 | mg/kg | 184        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 325               |                 | mg/kg | 325        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.66              | UJ              | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.66              | U               | mg/kg | 0.66       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.1              |                 | mg/kg | 24.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 159               |                 | mg/kg | 159        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B97       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-166 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                               | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.18              |                 | mg/kg | 0.18       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B97       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-166 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                           | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10000             |                 | mg/kg | 10000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1570              |                 | mg/kg | 1570       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17500             |                 | mg/kg | 17500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1410              |                 | mg/kg | 1410       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 453               | J               | mg/kg | 453        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 575               | U               | mg/kg | 575        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B97       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-166 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:05:00 |
| % Moisture:                 |                          | % Solids: 83.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 68.9              |                 | mg/kg | 68.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.59              | U               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 37.2              |                 | mg/kg | 37.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 31.8              |                 | mg/kg | 31.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 253               |                 | mg/kg | 253        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 430               |                 | mg/kg | 430        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | UJ              | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.9              |                 | mg/kg | 30.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 101               |                 | mg/kg | 101        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                               | % Solids: 87.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.041      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB6       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                           | % Solids: 87.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13700             |                 | mg/kg | 13700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 627               |                 | mg/kg | 627        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20500             |                 | mg/kg | 20500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2000              |                 | mg/kg | 2000       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 334               | J               | mg/kg | 334        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 141               | J               | mg/kg | 141        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-129 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 08:25:00 |
| % Moisture:                 |                          | % Solids: 87.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 56.5              |                 | mg/kg | 56.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.55              | U               | mg/kg | 0.33       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.6              |                 | mg/kg | 15.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.0               |                 | mg/kg | 4.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 20.4              |                 | mg/kg | 20.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 161               |                 | mg/kg | 161        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 155               |                 | mg/kg | 155        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | UJ              | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.1              |                 | mg/kg | 25.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 87.8              |                 | mg/kg | 87.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                               | % Solids: 81.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.012      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                           | % Solids: 81.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11400             |                 | mg/kg | 11400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 631               |                 | mg/kg | 631        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22800             |                 | mg/kg | 22800      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2360              |                 | mg/kg | 2360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 667               |                 | mg/kg | 667        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 583               | U               | mg/kg | 583        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-147 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                          | % Solids: 81.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.4               | U               | mg/kg | 2.4        | UD       | 2               | YES        | S4VEM            |
| Arsenic      | Target       | 2.5               |                 | mg/kg | 2.5        | D        | 2               | YES        | S4VEM            |
| Barium       | Target       | 66.5              |                 | mg/kg | 66.5       | D        | 2               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.089      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.9              |                 | mg/kg | 17.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 19.0              |                 | mg/kg | 19.0       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 12.1              |                 | mg/kg | 12.1       | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 2060              |                 | mg/kg | 2060       | D        | 10              | YES        | S4VEM            |
| Nickel       | Target       | 12.4              |                 | mg/kg | 12.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | UJ              | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.2               | U               | mg/kg | 1.2        | UD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 30.8              |                 | mg/kg | 30.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 30.9              |                 | mg/kg | 30.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                               | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.023      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                           | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 19600             |                 | mg/kg | 19600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2890              |                 | mg/kg | 2890       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 30600             |                 | mg/kg | 30600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5870              |                 | mg/kg | 5870       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 4220              |                 | mg/kg | 4220       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 589               | U               | mg/kg | 589        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-163 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                          | % Solids: 82.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.4               | U               | mg/kg | 2.4        | UD       | 2               | YES        | S4VEM            |
| Arsenic      | Target       | 1.2               |                 | mg/kg | 1.2        | D        | 2               | YES        | S4VEM            |
| Barium       | Target       | 49.9              |                 | mg/kg | 49.9       | D        | 2               | YES        | S4VEM            |
| Beryllium    | Target       | 0.86              | J               | mg/kg | 0.86       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 0.59              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 50.2              |                 | mg/kg | 50.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 12.6              |                 | mg/kg | 12.6       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 36.3              |                 | mg/kg | 36.3       | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 495               |                 | mg/kg | 495        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | UJ              | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.2               | U               | mg/kg | 0.27       | JD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 57.4              |                 | mg/kg | 57.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 49.1              |                 | mg/kg | 49.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                               | % Solids: 82.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                           | % Solids: 82.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13400             |                 | mg/kg | 13400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 653               |                 | mg/kg | 653        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 25900             |                 | mg/kg | 25900      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2730              |                 | mg/kg | 2730       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 910               |                 | mg/kg | 910        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 569               | U               | mg/kg | 569        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-166 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 09:10:00 |
| % Moisture:                 |                          | % Solids: 82.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.2               | U               | mg/kg | 2.2        | UD       | 2               | YES        | S4VEM            |
| Arsenic      | Target       | 3.7               |                 | mg/kg | 3.7        | D        | 2               | YES        | S4VEM            |
| Barium       | Target       | 43.5              |                 | mg/kg | 43.5       | D        | 2               | YES        | S4VEM            |
| Beryllium    | Target       | 0.76              | J               | mg/kg | 0.76       | JD       | 2               | YES        | S4VEM            |
| Cadmium      | Target       | 0.55              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.4              |                 | mg/kg | 21.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.6               |                 | mg/kg | 9.6        | D        | 2               | YES        | S4VEM            |
| Manganese    | Target       | 194               |                 | mg/kg | 194        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.1              |                 | mg/kg | 11.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | UJ              | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.1               | U               | mg/kg | 1.1        | UD       | 2               | YES        | S4VEM            |
| Vanadium     | Target       | 37.4              |                 | mg/kg | 37.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 42.4              |                 | mg/kg | 42.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                               | % Solids: 80.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.035      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD2       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                           | % Solids: 80.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 16900             |                 | mg/kg | 16900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 886               |                 | mg/kg | 886        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 27400             |                 | mg/kg | 27400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2150              |                 | mg/kg | 2150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 849               |                 | mg/kg | 849        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 596               | U               | mg/kg | 596        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-167 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 16:45:00 |
| % Moisture:                 |                          | % Solids: 80.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.4               |                 | mg/kg | 4.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.5              |                 | mg/kg | 38.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.40              | J               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.9              |                 | mg/kg | 22.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 11.5              |                 | mg/kg | 11.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 124               |                 | mg/kg | 124        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.9               |                 | mg/kg | 7.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.56              | UJ              | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 38.3              |                 | mg/kg | 38.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 28.1              |                 | mg/kg | 28.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                               | % Solids: 91.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                           | % Solids: 91.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 4270              |                 | mg/kg | 4270       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 153               | J               | mg/kg | 153        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 11500             |                 | mg/kg | 11500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 796               |                 | mg/kg | 796        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 281               | J               | mg/kg | 281        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 524               | U               | mg/kg | 524        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-129 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                          | % Solids: 91.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.98              | U               | mg/kg | 0.98       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.49              | U               | mg/kg | 0.49       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 87.9              |                 | mg/kg | 87.9       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | UJ              | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.49              | UJ              | mg/kg | 0.49       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.49              | U               | mg/kg | 0.49       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 9.5               |                 | mg/kg | 9.5        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                               | % Solids: 94.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | UJ              | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                           | % Solids: 94.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 4120              |                 | mg/kg | 4120       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 141               | J               | mg/kg | 141        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10800             |                 | mg/kg | 10800      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1020              |                 | mg/kg | 1020       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 311               | J               | mg/kg | 311        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 504               | U               | mg/kg | 504        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-147 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                          | % Solids: 94.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 14.9              |                 | mg/kg | 14.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 280               |                 | mg/kg | 280        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | UJ              | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | UJ              | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 9.5               |                 | mg/kg | 9.5        |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 17.3              |                 | mg/kg | 17.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                               | % Solids: 81.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.012      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                           | % Solids: 81.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13700             |                 | mg/kg | 13700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1040              |                 | mg/kg | 1040       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2270              |                 | mg/kg | 2270       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1040              |                 | mg/kg | 1040       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 321               | J               | mg/kg | 321        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-163 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 15:05:00 |
| % Moisture:                 |                          | % Solids: 81.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 47.9              |                 | mg/kg | 47.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.57              | U               | mg/kg | 0.098      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.0              |                 | mg/kg | 17.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 431               |                 | mg/kg | 431        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | UJ              | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.1              |                 | mg/kg | 20.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 40.4              |                 | mg/kg | 40.4       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B24

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS716 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS748 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.55             | J               | mg/kg | -0.55      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | -0.20             | J               | mg/kg | -0.20      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL52 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | -0.011            | UJ              | mg/kg | -0.011     | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B24

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 12/17/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0B36 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220002





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 7, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOB36

### **Overview**

This data package consisted of seventeen (17) soil samples analyzed for aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) by ICP-AES, mercury (Hg) by cold vapor atomic absorption technique, and for all remaining target analytes by ICP-MS.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated November 25, 2020.

### **Summary**

No data quality outliers or technical deficiencies were identified that would require rejection of sample results. Serial dilution and blank contamination issues required qualification of sample results.

### **Minor Problem**

Percent differences (%D) in the ICP serial dilution analysis were outside the control limit (>10%) for barium (Ba), chromium (Cr), Fe, and vanadium (V) in sample MCOB36. The detected concentrations for these analytes are estimated in this sample and have been qualified "J".

### **Notes**

Detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb) and Hg have been detected at concentrations less than the CRQL in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes in the associated samples which were less than the CRQL have been reported at the CRQL and qualified "U".

Laboratory Control Sample, Hg matrix spike, and laboratory duplicate analyses were within control limits.

The matrix spike recovery was outside the control limits for lead (Pb) in sample MCOB36. The initial concentration for Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Concentrations for manganese exceeded the calibration range in the initial analysis for the samples MCOAY5, MCOB36, and MCOB51. These samples were reanalyzed at a 2-fold dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

Additional information available through the EXES Data Manager dated December 2, 2020 states an incorrect receipt time of 10:51 is listed on the Electronic Data Deliverables (EDDs) for sample received on November 12, 2020. The correct time of 10:12 is recorded on the Chain of Custody and DC-1. The corrected time was not uploaded as reported and the EDDs show the incorrect time. No data were qualified.

Sample calculation checks were performed for MCOAZ8 and MCOB66. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control samples.

**Glossary of Inorganic Data Qualifier Codes**

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Validation Qualifiers In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

Sample Number: LCS703

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.3              |                 | mg/kg | 39.3       |          | 1               | YES        | NV               |
| Calcium      | Spike        | 1080              |                 | mg/kg | 1080       |          | 1               | YES        | NV               |
| Iron         | Spike        | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | NV               |
| Magnesium    | Spike        | 997               |                 | mg/kg | 997        |          | 1               | YES        | NV               |
| Potassium    | Spike        | 967               |                 | mg/kg | 967        |          | 1               | YES        | NV               |
| Sodium       | Spike        | 1000              |                 | mg/kg | 1000       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS731 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | NV               |
| Barium       | Spike        | 10.2              |                 | mg/kg | 10.2       |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | NV               |
| Copper       | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | NV               |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | NV               |
| Manganese    | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | NV               |
| Selenium     | Spike        | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | NV               |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                               | % Solids: 75.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                           | % Solids: 75.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8650              |                 | mg/kg | 8650       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1930              |                 | mg/kg | 1930       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16200             |                 | mg/kg | 16200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1480              |                 | mg/kg | 1480       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 359               | J               | mg/kg | 359        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 624               | U               | mg/kg | 624        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AW5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-102 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 08:40:00 |
| % Moisture:                 |                          | % Solids: 75.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 48.4              |                 | mg/kg | 48.4       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.6              |                 | mg/kg | 14.6       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 28.0              |                 | mg/kg | 28.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 67.9              |                 | mg/kg | 67.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 303               |                 | mg/kg | 303        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.8               |                 | mg/kg | 9.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.094             | J               | mg/kg | 0.094      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.9              |                 | mg/kg | 23.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 152               |                 | mg/kg | 152        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                               | % Solids: 82.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 82.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9660              |                 | mg/kg | 9660       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 703               |                 | mg/kg | 703        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1960              |                 | mg/kg | 1960       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 655               |                 | mg/kg | 655        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 593               | U               | mg/kg | 593        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-120 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                          | % Solids: 82.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.5              |                 | mg/kg | 42.5       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.5              |                 | mg/kg | 18.5       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.5              |                 | mg/kg | 18.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 57.2              |                 | mg/kg | 57.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 150               |                 | mg/kg | 150        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.099             | J               | mg/kg | 0.099      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.084             | J               | mg/kg | 0.084      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.7              |                 | mg/kg | 34.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 65.5              |                 | mg/kg | 65.5       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                               | % Solids: 64.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.15              | U               | mg/kg | 0.081      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                           | % Solids: 64.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9100              |                 | mg/kg | 9100       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 9560              |                 | mg/kg | 9560       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21500             |                 | mg/kg | 21500      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3930              |                 | mg/kg | 3930       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1120              |                 | mg/kg | 1120       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 756               | U               | mg/kg | 756        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-122 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 10:05:00 |
| % Moisture:                 |                          | % Solids: 64.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.5               | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 69.0              |                 | mg/kg | 69.0       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.40              | J               | mg/kg | 0.40       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.9              |                 | mg/kg | 19.9       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 35.1              |                 | mg/kg | 35.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 37.9              |                 | mg/kg | 37.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 644               |                 | mg/kg | 644        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.7               | U               | mg/kg | 3.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.73              | U               | mg/kg | 0.73       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.73              | U               | mg/kg | 0.73       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.3              |                 | mg/kg | 25.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 210               |                 | mg/kg | 210        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                               | % Solids: 84.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.098      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                           | % Solids: 84.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 5590              |                 | mg/kg | 5590       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2020              |                 | mg/kg | 2020       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 11200             |                 | mg/kg | 11200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 915               |                 | mg/kg | 915        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 571               |                 | mg/kg | 571        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 564               | U               | mg/kg | 564        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AY7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-124 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 10:40:00 |
| % Moisture:                 |                          | % Solids: 84.4          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 33.4              |                 | mg/kg | 33.4       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.35              | J               | mg/kg | 0.35       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 8.2               |                 | mg/kg | 8.2        | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 38.5              |                 | mg/kg | 38.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 162               |                 | mg/kg | 162        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 11.2              |                 | mg/kg | 11.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 45.3              |                 | mg/kg | 45.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                               | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.062      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                           | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10200             |                 | mg/kg | 10200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1240              |                 | mg/kg | 1240       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21800             |                 | mg/kg | 21800      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2080              |                 | mg/kg | 2080       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 598               | J               | mg/kg | 598        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 612               | U               | mg/kg | 612        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-127 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 11:10:00 |
| % Moisture:                 |                          | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.7              |                 | mg/kg | 32.7       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.6              |                 | mg/kg | 12.6       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.7              |                 | mg/kg | 14.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 25.7              |                 | mg/kg | 25.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 240               |                 | mg/kg | 240        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.0              |                 | mg/kg | 24.0       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 55.9              |                 | mg/kg | 55.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                               | % Solids: 71.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.22              |                 | mg/kg | 0.22       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                           | % Solids: 71.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9650              |                 | mg/kg | 9650       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1550              |                 | mg/kg | 1550       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1750              |                 | mg/kg | 1750       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 473               | J               | mg/kg | 473        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 684               | U               | mg/kg | 684        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-134 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                          | % Solids: 71.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.82       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.0              |                 | mg/kg | 42.0       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | J               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.5              |                 | mg/kg | 20.5       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 24.5              |                 | mg/kg | 24.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 63.6              |                 | mg/kg | 63.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 125               |                 | mg/kg | 125        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.3              |                 | mg/kg | 27.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 90.0              |                 | mg/kg | 90.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                               | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.065      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ8       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                           | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 14100             |                 | mg/kg | 14100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 576               | J               | mg/kg | 576        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 24700             |                 | mg/kg | 24700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3750              |                 | mg/kg | 3750       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3180              |                 | mg/kg | 3180       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 108               | J               | mg/kg | 108        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0AZ8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-135 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 13:45:00 |
| % Moisture:                 |                          | % Solids: 82.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 77.0              |                 | mg/kg | 77.0       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.75              |                 | mg/kg | 0.75       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 46.5              |                 | mg/kg | 46.5       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.5               |                 | mg/kg | 9.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 24.0              |                 | mg/kg | 24.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 26.2              |                 | mg/kg | 26.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 157               |                 | mg/kg | 157        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 19.8              |                 | mg/kg | 19.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | U               | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 39.9              |                 | mg/kg | 39.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 65.5              |                 | mg/kg | 65.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B33       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-102 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                               | % Solids: 76.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.31              |                 | mg/kg | 0.31       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B33       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-102 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                           | % Solids: 76.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8950              |                 | mg/kg | 8950       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3550              |                 | mg/kg | 3550       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17000             |                 | mg/kg | 17000      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2520              |                 | mg/kg | 2520       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 569               | J               | mg/kg | 569        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 626               | U               | mg/kg | 626        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B33       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-102 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 08:45:00 |
| % Moisture:                 |                          | % Solids: 76.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.4              |                 | mg/kg | 54.4       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.7              |                 | mg/kg | 14.7       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 23.6              |                 | mg/kg | 23.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 89.3              |                 | mg/kg | 89.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 240               |                 | mg/kg | 240        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.5              |                 | mg/kg | 21.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 216               |                 | mg/kg | 216        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B36       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-105 | pH:                           | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:                 |                               | % Solids: 64.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | U               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B36       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-105 | pH:                       | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:                 |                           | % Solids: 64.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7000              |                 | mg/kg | 7000       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24800             | J               | mg/kg | 24800      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2990              |                 | mg/kg | 2990       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1780              |                 | mg/kg | 1780       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 757               | U               | mg/kg | 757        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B36       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-105 | pH:                      | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:                 |                          | % Solids: 64.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 78.6              | J               | mg/kg | 78.6       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.64              | J               | mg/kg | 0.64       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.9              | J               | mg/kg | 26.9       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 37.8              |                 | mg/kg | 37.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 52.3              |                 | mg/kg | 52.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 458               |                 | mg/kg | 458        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.8              |                 | mg/kg | 13.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.9              | J               | mg/kg | 30.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 150               |                 | mg/kg | 150        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

Sample Number: MC0B36D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:25:00

% Moisture:

% Solids: 64.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B36D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:            |                           | % Solids: 64.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10500             |                 | mg/kg | 10500      |          | 1               | YES        | NV               |
| Calcium      | Target       | 6970              |                 | mg/kg | 6970       |          | 1               | YES        | NV               |
| Iron         | Target       | 24700             |                 | mg/kg | 24700      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 2980              |                 | mg/kg | 2980       |          | 1               | YES        | NV               |
| Potassium    | Target       | 1750              |                 | mg/kg | 1750       |          | 1               | YES        | NV               |
| Sodium       | Target       | 757               | U               | mg/kg | 757        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B36D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:            |                          | % Solids: 64.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | NV               |
| Barium       | Target       | 77.7              |                 | mg/kg | 77.7       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.62              | J               | mg/kg | 0.62       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.59              | J               | mg/kg | 0.59       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 25.8              |                 | mg/kg | 25.8       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | NV               |
| Copper       | Target       | 37.4              |                 | mg/kg | 37.4       |          | 1               | YES        | NV               |
| Lead         | Target       | 51.5              |                 | mg/kg | 51.5       |          | 1               | YES        | NV               |
| Manganese    | Target       | 452               |                 | mg/kg | 452        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 13.6              |                 | mg/kg | 13.6       |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.099             | J               | mg/kg | 0.099      | J        | 1               | YES        | NV               |
| Thallium     | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | NV               |
| Vanadium     | Target       | 29.0              |                 | mg/kg | 29.0       |          | 1               | YES        | NV               |
| Zinc         | Target       | 148               |                 | mg/kg | 148        |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B36L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 64.1 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11300             |                 | mg/kg | 11300      |          | 5               | YES        | NV               |
| Calcium      | Target       | 7620              |                 | mg/kg | 7620       |          | 5               | YES        | NV               |
| Iron         | Target       | 27600             |                 | mg/kg | 27600      | X*       | 5               | YES        | NV               |
| Magnesium    | Target       | 3260              | J               | mg/kg | 3260       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 1840              | J               | mg/kg | 1840       | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3790              | U               | mg/kg | 3790       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B36L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 64.1 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | J               | mg/kg | 1.3        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 5               | YES        | NV               |
| Barium       | Target       | 89.6              |                 | mg/kg | 89.6       | X*       | 5               | YES        | NV               |
| Beryllium    | Target       | 0.62              | J               | mg/kg | 0.62       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 5               | YES        | NV               |
| Chromium     | Target       | 24.0              |                 | mg/kg | 24.0       | X*       | 5               | YES        | NV               |
| Cobalt       | Target       | 7.2               |                 | mg/kg | 7.2        |          | 5               | YES        | NV               |
| Copper       | Target       | 36.3              |                 | mg/kg | 36.3       |          | 5               | YES        | NV               |
| Lead         | Target       | 53.1              |                 | mg/kg | 53.1       |          | 5               | YES        | NV               |
| Manganese    | Target       | 450               |                 | mg/kg | 450        | D        | 10              | YES        | NV               |
| Nickel       | Target       | 13.2              |                 | mg/kg | 13.2       |          | 5               | YES        | NV               |
| Selenium     | Target       | 17.7              | U               | mg/kg | 17.7       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.7              |                 | mg/kg | 25.7       | X*       | 5               | YES        | NV               |
| Zinc         | Target       | 143               |                 | mg/kg | 143        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

Sample Number: MC0B36S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/10/2020

Sample Time: 11:25:00

% Moisture:

% Solids: 64.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.82              |                 | mg/kg | 0.82       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B36S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/10/2020 | Sample Time: 11:25:00 |
| % Moisture:            |                          | % Solids: 64.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 11.4              |                 | mg/kg | 11.4       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | NV               |
| Barium       | Spike        | 317               |                 | mg/kg | 317        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 53.0              |                 | mg/kg | 53.0       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 76.2              |                 | mg/kg | 76.2       |          | 1               | YES        | NV               |
| Copper       | Spike        | 70.6              |                 | mg/kg | 70.6       |          | 1               | YES        | NV               |
| Lead         | Spike        | 54.2              |                 | mg/kg | 54.2       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 514               |                 | mg/kg | 514        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 81.5              |                 | mg/kg | 81.5       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 15.4              |                 | mg/kg | 15.4       |          | 1               | YES        | NV               |
| Silver       | Spike        | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 97.1              |                 | mg/kg | 97.1       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 216               |                 | mg/kg | 216        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B51       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-120 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                               | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B51       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-120 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                           | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1750              |                 | mg/kg | 1750       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19800             |                 | mg/kg | 19800      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2410              |                 | mg/kg | 2410       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 938               |                 | mg/kg | 938        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 620               | U               | mg/kg | 620        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B51       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-120 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 09:35:00 |
| % Moisture:                 |                          | % Solids: 78.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 51.8              |                 | mg/kg | 51.8       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.57              | J               | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.38              | J               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.0              |                 | mg/kg | 19.0       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.6               |                 | mg/kg | 9.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 21.8              |                 | mg/kg | 21.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 60.8              |                 | mg/kg | 60.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 385               |                 | mg/kg | 385        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 11.7              |                 | mg/kg | 11.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.27              | J               | mg/kg | 0.27       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.4              |                 | mg/kg | 31.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 94.3              |                 | mg/kg | 94.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B53       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                               | % Solids: 74.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.088      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B53       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                           | % Solids: 74.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9350              |                 | mg/kg | 9350       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 3770              |                 | mg/kg | 3770       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20600             |                 | mg/kg | 20600      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2580              |                 | mg/kg | 2580       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1250              |                 | mg/kg | 1250       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 651               | U               | mg/kg | 651        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B53       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-122 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                          | % Solids: 74.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 51.0              |                 | mg/kg | 51.0       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | J               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.65              |                 | mg/kg | 0.65       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.0              |                 | mg/kg | 19.0       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 25.8              |                 | mg/kg | 25.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 58.8              |                 | mg/kg | 58.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 311               |                 | mg/kg | 311        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.4              |                 | mg/kg | 13.4       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.084             | J               | mg/kg | 0.084      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.9              |                 | mg/kg | 30.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 156               |                 | mg/kg | 156        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B55       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-124 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                               | % Solids: 76.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.083      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B55       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-124 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                           | % Solids: 76.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7890              |                 | mg/kg | 7890       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2770              |                 | mg/kg | 2770       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 16100             |                 | mg/kg | 16100      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2010              |                 | mg/kg | 2010       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 826               |                 | mg/kg | 826        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 637               | U               | mg/kg | 637        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B55       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-124 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 10:45:00 |
| % Moisture:                 |                          | % Solids: 76.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.4              |                 | mg/kg | 40.4       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.46              | J               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.38              | J               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.4              |                 | mg/kg | 13.4       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 20.1              |                 | mg/kg | 20.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 38.9              |                 | mg/kg | 38.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 200               |                 | mg/kg | 200        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.3               |                 | mg/kg | 8.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 20.9              |                 | mg/kg | 20.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 78.1              |                 | mg/kg | 78.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B58       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-127 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                               | % Solids: 76.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.072      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

Sample Number: MC0B58

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-127

pH:

Sample Date: 11/11/2020

Sample Time: 11:15:00

% Moisture:

% Solids: 76.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8960              |                 | mg/kg | 8960       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2090              |                 | mg/kg | 2090       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19200             |                 | mg/kg | 19200      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1940              |                 | mg/kg | 1940       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 757               |                 | mg/kg | 757        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 636               | U               | mg/kg | 636        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B58       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-127 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                          | % Solids: 76.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.46       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.5               |                 | mg/kg | 3.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 34.8              |                 | mg/kg | 34.8       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.33              | J               | mg/kg | 0.33       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 14.1              |                 | mg/kg | 14.1       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 19.0              |                 | mg/kg | 19.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 29.7              |                 | mg/kg | 29.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 259               |                 | mg/kg | 259        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.1              |                 | mg/kg | 25.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 134               |                 | mg/kg | 134        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B65       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-134 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                               | % Solids: 73.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B65       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-134 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                           | % Solids: 73.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8910              |                 | mg/kg | 8910       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1920              |                 | mg/kg | 1920       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17400             |                 | mg/kg | 17400      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1970              |                 | mg/kg | 1970       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 555               | J               | mg/kg | 555        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 664               | U               | mg/kg | 664        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B65       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-134 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                          | % Solids: 73.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.63       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.6              |                 | mg/kg | 40.6       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.2              |                 | mg/kg | 17.2       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 19.2              |                 | mg/kg | 19.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 69.9              |                 | mg/kg | 69.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 174               |                 | mg/kg | 174        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.3              |                 | mg/kg | 23.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 117               |                 | mg/kg | 117        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B66       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-135 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                               | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.076      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B66       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-135 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                           | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11200             |                 | mg/kg | 11200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2410              |                 | mg/kg | 2410       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21700             |                 | mg/kg | 21700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3020              |                 | mg/kg | 3020       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1320              |                 | mg/kg | 1320       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 650               | U               | mg/kg | 650        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B66       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-135 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 13:50:00 |
| % Moisture:                 |                          | % Solids: 74.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 53.8              |                 | mg/kg | 53.8       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              | J               | mg/kg | 0.62       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 41.2              |                 | mg/kg | 41.2       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 19.4              |                 | mg/kg | 19.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 28.4              |                 | mg/kg | 28.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 168               |                 | mg/kg | 168        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.2              |                 | mg/kg | 11.2       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.7              |                 | mg/kg | 22.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 175               |                 | mg/kg | 175        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-169 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                               | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B36

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF2       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-169 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                           | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10000             |                 | mg/kg | 10000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1930              |                 | mg/kg | 1930       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20000             |                 | mg/kg | 20000      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2000              |                 | mg/kg | 2000       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 671               |                 | mg/kg | 671        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 636               | U               | mg/kg | 636        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-169 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                          | % Solids: 77.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.2              |                 | mg/kg | 40.2       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.4              |                 | mg/kg | 16.4       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 20.6              |                 | mg/kg | 20.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 50.3              |                 | mg/kg | 50.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 217               |                 | mg/kg | 217        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | U               | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 27.0              |                 | mg/kg | 27.0       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 191               |                 | mg/kg | 191        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                           | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                               | % Solids: 75.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.15              |                 | mg/kg | 0.15       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                       | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                           | % Solids: 75.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9750              |                 | mg/kg | 9750       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2420              |                 | mg/kg | 2420       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20700             |                 | mg/kg | 20700      | X*       | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2150              |                 | mg/kg | 2150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 793               |                 | mg/kg | 793        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 649               | U               | mg/kg | 649        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BF3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-169 | pH:                      | Sample Date: 11/11/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                          | % Solids: 75.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.72       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 45.0              |                 | mg/kg | 45.0       | X*       | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.54              | J               | mg/kg | 0.54       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.83              |                 | mg/kg | 0.83       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.4              |                 | mg/kg | 17.4       | X*       | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 27.1              |                 | mg/kg | 27.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 58.0              |                 | mg/kg | 58.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 241               |                 | mg/kg | 241        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.082             | J               | mg/kg | 0.082      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.6              |                 | mg/kg | 30.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 286               |                 | mg/kg | 286        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS703 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | NV               |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | NV               |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS731 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | NV               |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | NV               |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | NV               |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Selenium     | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 1               | YES        | NV               |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | NV               |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL39 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.019             | J               | mg/kg | 0.019      | J        | 1               | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B36

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE:

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0B56 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220077





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 12, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOB56

### Overview

This data package consisted of twenty (20) soil samples, including two (2) field duplicate samples, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 22, 2020 and additional data dated December 29, 2020.

Rinsate blanks MCOBG9 and MCOBH0 (from SDG MCOAY8) were associated with samples in this SDG and used in the evaluation of this data.

Field duplicate samples MCOBH3 and MCOBH5 (from SDG MCOAY8) were associated with samples MCOBC4 and MCOBB1, respectively, and were used in evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Serial dilution and blank contamination issues required estimation of sample data.

**Minor Problems**

Percent differences (%Ds) in the ICP-MS serial dilution analysis were outside the control limit (>10%) for nickel (Ni) and vanadium (V) in sample MCOBC4. Detected concentrations for these analytes are estimated in this sample and have been qualified "J".

Laboratory instrumentation reported a negative value for selenium (Se) greater than the absolute value of the Method Detection Limit (MDL) in a blank analysis. Laboratory instrumentation reported negative values for Hg greater than the absolute value of the MDL in blank analyses. Detected concentrations for these analytes less than Contract Required Quantitation Limits (CRQLs) were reported at the CRQL and qualified "UJ". Quantitation limits for these analytes are estimated and qualified "UJ".

**Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Antimony (Sb) has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for Sb less than the CRQL have been reported at the CRQL and qualified "U".

Rinsate blank MCOBG9 reported concentrations for arsenic (As) and chromium (Cr) less than the CRQLs. Rinsate blank MCOBH0 reported concentrations for Cr and Ni less than the CRQLs and for zinc (Zn) greater than the CRQL. Detected concentrations for Zn were greater than ten times (>10X) the blank concentration and not qualified based on this finding. Detected concentrations for the remaining analytes were greater than the CRQLs and not qualified based on these findings.

Matrix spike, laboratory duplicate, ICP-AES serial dilution, and Laboratory Control Sample analyses were within control limits.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| <b>Sample(s)</b>                       | <b>Analyte(s)</b> | <b>Dilution</b> |
|--|-------------------|-----------------|
| MC0B56, MC0B62, MC0B68, MC0BA4, MC0BB0 | manganese (Mn)    | 2X              |
| MC0BA4                                 | Fe                | 2X              |
| MC0BA1                                 | Mn                | 5X              |
| MC0BB5                                 | lead (Pb), Zn     | 5X              |

Results reported for field duplicate pair MCOBH3/MCOBC4 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes except As. No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOBH5/MCOBB1 were comparable (within control limits of 25 RPD or  $\pm$  CRQL) for all analytes except Al and Pb. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on sample MCOB56. All calculated results had Relative Percent Differences RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

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Validation Qualifiers In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: LCS712

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 38.5              |                 | mg/kg | 38.5       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1090              |                 | mg/kg | 1090       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 954               |                 | mg/kg | 954        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 985               |                 | mg/kg | 985        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 990               |                 | mg/kg | 990        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS746 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.6               |                 | mg/kg | 9.6        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.2               |                 | mg/kg | 2.2        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B56       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-125 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                               | % Solids: 76.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.053      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0B56

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-125

pH:

Sample Date: 11/18/2020

Sample Time: 08:30:00

% Moisture:

% Solids: 76.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8530              |                 | mg/kg | 8530       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1250              |                 | mg/kg | 1250       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18800             |                 | mg/kg | 18800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2450              |                 | mg/kg | 2450       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 562               | J               | mg/kg | 562        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 613               | U               | mg/kg | 613        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B56       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-125 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                          | % Solids: 76.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 17.1              |                 | mg/kg | 17.1       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 56.3              |                 | mg/kg | 56.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.65              |                 | mg/kg | 0.65       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.30              | J               | mg/kg | 0.30       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 32.3              |                 | mg/kg | 32.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 30.2              |                 | mg/kg | 30.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 123               |                 | mg/kg | 123        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 311               |                 | mg/kg | 311        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 12.9              |                 | mg/kg | 12.9       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 0.82       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 39.6              |                 | mg/kg | 39.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 142               |                 | mg/kg | 142        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B59       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                               | % Solids: 77.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.049      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B59       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                           | % Solids: 77.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9390              |                 | mg/kg | 9390       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1610              |                 | mg/kg | 1610       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19600             |                 | mg/kg | 19600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1800              |                 | mg/kg | 1800       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 905               |                 | mg/kg | 905        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 624               | U               | mg/kg | 624        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B59       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-128 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 09:25:00 |
| % Moisture:                 |                          | % Solids: 77.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.62       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 50.7              |                 | mg/kg | 50.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.26              | J               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 19.4              |                 | mg/kg | 19.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 59.5              |                 | mg/kg | 59.5       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 268               |                 | mg/kg | 268        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.5              |                 | mg/kg | 11.5       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 0.57       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.4              |                 | mg/kg | 34.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 91.5              |                 | mg/kg | 91.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B61       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-130 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                               | % Solids: 74.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B61       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-130 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                           | % Solids: 74.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7600              |                 | mg/kg | 7600       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 7820              |                 | mg/kg | 7820       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 14100             |                 | mg/kg | 14100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1870              |                 | mg/kg | 1870       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 752               |                 | mg/kg | 752        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 645               | U               | mg/kg | 645        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B61       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-130 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:15:00 |
| % Moisture:                 |                          | % Solids: 74.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.1        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 13.9              |                 | mg/kg | 13.9       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 59.6              |                 | mg/kg | 59.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.4              |                 | mg/kg | 25.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 42.9              |                 | mg/kg | 42.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 61.3              |                 | mg/kg | 61.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 270               |                 | mg/kg | 270        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.3              |                 | mg/kg | 11.3       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.31              | J               | mg/kg | 0.31       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 29.8              |                 | mg/kg | 29.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 108               |                 | mg/kg | 108        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B62       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-131 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                               | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.075      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B62       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-131 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                           | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13000             |                 | mg/kg | 13000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5890              |                 | mg/kg | 5890       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23200             |                 | mg/kg | 23200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5470              |                 | mg/kg | 5470       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 2310              |                 | mg/kg | 2310       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 687               | U               | mg/kg | 687        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B62       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-131 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:50:00 |
| % Moisture:                 |                          | % Solids: 70.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 108               |                 | mg/kg | 108        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.45              | J               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 178               |                 | mg/kg | 178        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 35.3              |                 | mg/kg | 35.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 351               |                 | mg/kg | 351        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 31.0              |                 | mg/kg | 31.0       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.51              | J               | mg/kg | 0.51       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.5              |                 | mg/kg | 41.5       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 121               |                 | mg/kg | 121        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B63       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-132 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                               | % Solids: 79.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.099      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0B63

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-132

pH:

Sample Date: 11/18/2020

Sample Time: 11:35:00

% Moisture:

% Solids: 79.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9200              |                 | mg/kg | 9200       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 615               |                 | mg/kg | 615        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17800             |                 | mg/kg | 17800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1460              |                 | mg/kg | 1460       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 550               | J               | mg/kg | 550        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 614               | U               | mg/kg | 614        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B63       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-132 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                          | % Solids: 79.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 33.6              |                 | mg/kg | 33.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.14              | J               | mg/kg | 0.14       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.7              |                 | mg/kg | 18.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.7               |                 | mg/kg | 5.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 22.4              |                 | mg/kg | 22.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 32.7              |                 | mg/kg | 32.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 187               |                 | mg/kg | 187        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.8               |                 | mg/kg | 9.8        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.4              |                 | mg/kg | 34.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 57.5              |                 | mg/kg | 57.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B64       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-133 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                               | % Solids: 76.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.051      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B64       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-133 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                           | % Solids: 76.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12700             |                 | mg/kg | 12700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1760              |                 | mg/kg | 1760       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24100             |                 | mg/kg | 24100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2910              |                 | mg/kg | 2910       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1530              |                 | mg/kg | 1530       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 616               | U               | mg/kg | 616        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B64       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-133 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 12:10:00 |
| % Moisture:                 |                          | % Solids: 76.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 52.5              |                 | mg/kg | 52.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.17              | J               | mg/kg | 0.17       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 23.5              |                 | mg/kg | 23.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.5              |                 | mg/kg | 17.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 32.9              |                 | mg/kg | 32.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 285               |                 | mg/kg | 285        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 18.4              |                 | mg/kg | 18.4       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 0.65       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.7              |                 | mg/kg | 34.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 61.1              |                 | mg/kg | 61.1       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B68       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-137 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 13:05:00 |
| % Moisture:                 |                               | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.062      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0B68

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-137

pH:

Sample Date: 11/18/2020

Sample Time: 13:05:00

% Moisture:

% Solids: 73.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8090              |                 | mg/kg | 8090       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2640              |                 | mg/kg | 2640       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18700             |                 | mg/kg | 18700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1740              |                 | mg/kg | 1740       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 949               |                 | mg/kg | 949        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 644               | U               | mg/kg | 644        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B68       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-137 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 13:05:00 |
| % Moisture:                 |                          | % Solids: 73.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.1              |                 | mg/kg | 54.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.61              | J               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.22              | J               | mg/kg | 0.22       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 23.1              |                 | mg/kg | 23.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.2               |                 | mg/kg | 7.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.6              |                 | mg/kg | 17.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 31.8              |                 | mg/kg | 31.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 329               |                 | mg/kg | 329        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.6              |                 | mg/kg | 13.6       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | UJ              | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.68              | U               | mg/kg | 0.68       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 37.7              |                 | mg/kg | 37.7       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 52.3              |                 | mg/kg | 52.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B70       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-139 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                               | % Solids: 69.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.031      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B70       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-139 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                           | % Solids: 69.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9080              |                 | mg/kg | 9080       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2730              |                 | mg/kg | 2730       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 17100             |                 | mg/kg | 17100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1650              |                 | mg/kg | 1650       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 513               | J               | mg/kg | 513        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 704               | U               | mg/kg | 704        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B70       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-139 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:10:00 |
| % Moisture:                 |                          | % Solids: 69.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.6              |                 | mg/kg | 41.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.6              |                 | mg/kg | 16.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 15.2              |                 | mg/kg | 15.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 40.1              |                 | mg/kg | 40.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 162               |                 | mg/kg | 162        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | UJ              | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 28.3              |                 | mg/kg | 28.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 98.9              |                 | mg/kg | 98.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-103 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                               | % Solids: 84.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.031      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0BA1

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-103

pH:

Sample Date: 11/18/2020

Sample Time: 08:50:00

% Moisture:

% Solids: 84.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12900             |                 | mg/kg | 12900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 687               |                 | mg/kg | 687        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23400             |                 | mg/kg | 23400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1740              |                 | mg/kg | 1740       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 690               |                 | mg/kg | 690        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 566               | U               | mg/kg | 566        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-103 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                          | % Solids: 84.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.9              |                 | mg/kg | 43.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.58              |                 | mg/kg | 0.58       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.9              |                 | mg/kg | 21.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 20.9              |                 | mg/kg | 20.9       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 456               |                 | mg/kg | 456        | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 9.2               |                 | mg/kg | 9.2        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | UJ              | mg/kg | 0.71       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 34.4              |                 | mg/kg | 34.4       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 57.1              |                 | mg/kg | 57.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                               | % Solids: 85.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA4       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                           | % Solids: 85.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11000             |                 | mg/kg | 11000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1710              |                 | mg/kg | 1710       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 46800             |                 | mg/kg | 46800      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 1640              |                 | mg/kg | 1640       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 564               |                 | mg/kg | 564        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 153               | J               | mg/kg | 153        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-110 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                          | % Solids: 85.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.2              |                 | mg/kg | 46.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.54              |                 | mg/kg | 0.54       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.098             | J               | mg/kg | 0.098      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.1              |                 | mg/kg | 25.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 77.9              |                 | mg/kg | 77.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 25.3              |                 | mg/kg | 25.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 387               |                 | mg/kg | 387        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 16.6              |                 | mg/kg | 16.6       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.6              |                 | mg/kg | 31.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 33.6              |                 | mg/kg | 33.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                               | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                           | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13800             |                 | mg/kg | 13800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 724               |                 | mg/kg | 724        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 22800             |                 | mg/kg | 22800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2700              |                 | mg/kg | 2700       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 982               |                 | mg/kg | 982        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 608               | U               | mg/kg | 608        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-115 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 11:45:00 |
| % Moisture:                 |                          | % Solids: 79.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.5              |                 | mg/kg | 32.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.3              |                 | mg/kg | 25.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.8               |                 | mg/kg | 6.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.9              |                 | mg/kg | 11.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.9               |                 | mg/kg | 8.9        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 245               |                 | mg/kg | 245        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.6              |                 | mg/kg | 12.6       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 43.1              |                 | mg/kg | 43.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 32.0              |                 | mg/kg | 32.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                               | % Solids: 81.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0BB0

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-119

pH:

Sample Date: 11/18/2020

Sample Time: 12:55:00

% Moisture:

% Solids: 81.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10200             |                 | mg/kg | 10200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 321               | J               | mg/kg | 321        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2130              |                 | mg/kg | 2130       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 671               |                 | mg/kg | 671        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 576               | U               | mg/kg | 576        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-119 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 12:55:00 |
| % Moisture:                 |                          | % Solids: 81.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 36.6              |                 | mg/kg | 36.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.66              |                 | mg/kg | 0.66       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.8              |                 | mg/kg | 22.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.4              |                 | mg/kg | 12.4       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.3               |                 | mg/kg | 8.3        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 282               |                 | mg/kg | 282        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 13.3              |                 | mg/kg | 13.3       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.60              | U               | mg/kg | 0.60       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.1              |                 | mg/kg | 41.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 34.0              |                 | mg/kg | 34.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                               | % Solids: 83.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.018      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                           | % Solids: 83.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13600             |                 | mg/kg | 13600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1360              |                 | mg/kg | 1360       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23700             |                 | mg/kg | 23700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1990              |                 | mg/kg | 1990       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 800               |                 | mg/kg | 800        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 572               | U               | mg/kg | 572        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-121 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                          | % Solids: 83.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.3              |                 | mg/kg | 40.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.58              |                 | mg/kg | 0.58       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.8              |                 | mg/kg | 25.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.0              |                 | mg/kg | 12.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 16.8              |                 | mg/kg | 16.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 135               |                 | mg/kg | 135        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 38.8              |                 | mg/kg | 38.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 32.6              |                 | mg/kg | 32.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0BB3

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SB-125

pH:

Sample Date: 11/18/2020

Sample Time: 08:35:00

% Moisture:

% Solids: 82.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                           | % Solids: 82.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12400             |                 | mg/kg | 12400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 920               |                 | mg/kg | 920        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21400             |                 | mg/kg | 21400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1700              |                 | mg/kg | 1700       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 644               |                 | mg/kg | 644        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 574               | U               | mg/kg | 574        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-125 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 08:35:00 |
| % Moisture:                 |                          | % Solids: 82.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 47.9              |                 | mg/kg | 47.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.73              |                 | mg/kg | 0.73       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.077             | J               | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 27.4              |                 | mg/kg | 27.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.7              |                 | mg/kg | 13.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 22.0              |                 | mg/kg | 22.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 284               |                 | mg/kg | 284        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.8              |                 | mg/kg | 11.8       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 44.6              |                 | mg/kg | 44.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 51.6              |                 | mg/kg | 51.6       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                               | % Solids: 85.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB4       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                           | % Solids: 85.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9580              |                 | mg/kg | 9580       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 375               | J               | mg/kg | 375        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 20200             |                 | mg/kg | 20200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2140              |                 | mg/kg | 2140       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 569               |                 | mg/kg | 569        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 561               | U               | mg/kg | 561        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-126 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 15:20:00 |
| % Moisture:                 |                          | % Solids: 85.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.4               |                 | mg/kg | 3.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 25.0              |                 | mg/kg | 25.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.7              |                 | mg/kg | 12.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.2               |                 | mg/kg | 8.2        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.0               |                 | mg/kg | 7.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 242               |                 | mg/kg | 242        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.6               |                 | mg/kg | 9.6        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.8              |                 | mg/kg | 23.8       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 26.8              |                 | mg/kg | 26.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                               | % Solids: 78.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 1.2               |                 | mg/kg | 1.2        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                           | % Solids: 78.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7140              |                 | mg/kg | 7140       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 8410              |                 | mg/kg | 8410       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21800             |                 | mg/kg | 21800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3490              |                 | mg/kg | 3490       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 844               |                 | mg/kg | 844        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 237               | J               | mg/kg | 237        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-128 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 09:30:00 |
| % Moisture:                 |                          | % Solids: 78.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.7               |                 | mg/kg | 2.7        |          | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 7.9               |                 | mg/kg | 7.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 242               |                 | mg/kg | 242        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.1              |                 | mg/kg | 21.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 12.5              |                 | mg/kg | 12.5       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 412               |                 | mg/kg | 412        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 1070              |                 | mg/kg | 1070       | D        | 5               | YES        | S4VEM            |
| Manganese    | Target       | 159               |                 | mg/kg | 159        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 49.1              |                 | mg/kg | 49.1       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 0.98       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 47.1              |                 | mg/kg | 47.1       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 797               |                 | mg/kg | 797        | D        | 5               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-130 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                               | % Solids: 80.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0BB7

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-130

pH:

Sample Date: 11/18/2020

Sample Time: 10:20:00

% Moisture:

% Solids: 80.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7780              |                 | mg/kg | 7780       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 556               | J               | mg/kg | 556        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 14600             |                 | mg/kg | 14600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1290              |                 | mg/kg | 1290       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 359               | J               | mg/kg | 359        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 613               | U               | mg/kg | 613        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-130 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:20:00 |
| % Moisture:                 |                          | % Solids: 80.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.26       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.5              |                 | mg/kg | 46.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.7              |                 | mg/kg | 20.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.7              |                 | mg/kg | 13.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 73.8              |                 | mg/kg | 73.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 205               |                 | mg/kg | 205        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 9.9               |                 | mg/kg | 9.9        | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.18              | J               | mg/kg | 0.18       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.3              |                 | mg/kg | 32.3       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 43.6              |                 | mg/kg | 43.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                               | % Solids: 83.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB8       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                           | % Solids: 83.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8680              |                 | mg/kg | 8680       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1210              |                 | mg/kg | 1210       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23400             |                 | mg/kg | 23400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2250              |                 | mg/kg | 2250       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 579               |                 | mg/kg | 579        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 581               | U               | mg/kg | 581        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-131 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                          | % Solids: 83.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 48.1              |                 | mg/kg | 48.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.60              |                 | mg/kg | 0.60       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.9              |                 | mg/kg | 21.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 12.8              |                 | mg/kg | 12.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 16.1              |                 | mg/kg | 16.1       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 123               |                 | mg/kg | 123        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.0              |                 | mg/kg | 12.0       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.6              |                 | mg/kg | 32.6       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 33.5              |                 | mg/kg | 33.5       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB9       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                               | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                           | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12200             |                 | mg/kg | 12200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 653               |                 | mg/kg | 653        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18100             |                 | mg/kg | 18100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2570              |                 | mg/kg | 2570       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 748               |                 | mg/kg | 748        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 594               | U               | mg/kg | 594        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-132 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 11:40:00 |
| % Moisture:                 |                          | % Solids: 80.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 35.3              |                 | mg/kg | 35.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.7              |                 | mg/kg | 20.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.8               |                 | mg/kg | 8.8        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 180               |                 | mg/kg | 180        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.2              |                 | mg/kg | 10.2       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.2              |                 | mg/kg | 36.2       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 30.8              |                 | mg/kg | 30.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                               | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                           | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12300             |                 | mg/kg | 12300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 789               |                 | mg/kg | 789        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 25100             |                 | mg/kg | 25100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2330              |                 | mg/kg | 2330       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 788               |                 | mg/kg | 788        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 579               | U               | mg/kg | 579        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-141 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:                 |                          | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 36.2              |                 | mg/kg | 36.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.4              |                 | mg/kg | 21.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.5              |                 | mg/kg | 11.5       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 214               |                 | mg/kg | 214        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.5              | J               | mg/kg | 10.5       | X*       | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 37.9              | J               | mg/kg | 37.9       | X*       | 1               | YES        | S4VEM            |
| Zinc         | Target       | 28.1              |                 | mg/kg | 28.1       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: MC0BC4D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/18/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 83.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.11       | U        | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                           | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12000             |                 | mg/kg | 12000      |          | 1               | YES        | NV               |
| Calcium      | Target       | 771               |                 | mg/kg | 771        |          | 1               | YES        | NV               |
| Iron         | Target       | 24500             |                 | mg/kg | 24500      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 2280              |                 | mg/kg | 2280       |          | 1               | YES        | NV               |
| Potassium    | Target       | 745               |                 | mg/kg | 745        |          | 1               | YES        | NV               |
| Sodium       | Target       | 579               | U               | mg/kg | 579        | U        | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                          | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | NV               |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | NV               |
| Barium       | Target       | 36.8              |                 | mg/kg | 36.8       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.58              |                 | mg/kg | 0.58       |          | 1               | YES        | NV               |
| Cadmium      | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | NV               |
| Chromium     | Target       | 21.6              |                 | mg/kg | 21.6       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 6.5               |                 | mg/kg | 6.5        |          | 1               | YES        | NV               |
| Copper       | Target       | 11.5              |                 | mg/kg | 11.5       |          | 1               | YES        | NV               |
| Lead         | Target       | 8.4               |                 | mg/kg | 8.4        |          | 1               | YES        | NV               |
| Manganese    | Target       | 209               |                 | mg/kg | 209        |          | 1               | YES        | NV               |
| Nickel       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | NV               |
| Selenium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.57              | U               | mg/kg | 0.57       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 38.1              |                 | mg/kg | 38.1       |          | 1               | YES        | NV               |
| Zinc         | Target       | 27.9              |                 | mg/kg | 27.9       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0BC4L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 83.1 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12300             |                 | mg/kg | 12300      |          | 5               | YES        | NV               |
| Calcium      | Target       | 800               | J               | mg/kg | 800        | J        | 5               | YES        | NV               |
| Iron         | Target       | 26600             |                 | mg/kg | 26600      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 2360              | J               | mg/kg | 2360       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 721               | J               | mg/kg | 721        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 2890              | U               | mg/kg | 2890       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0BC4L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 83.1 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 5.7               | U               | mg/kg | 5.7        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 5               | YES        | NV               |
| Barium       | Target       | 40.5              |                 | mg/kg | 40.5       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 20.8              |                 | mg/kg | 20.8       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 5               | YES        | NV               |
| Copper       | Target       | 11.8              |                 | mg/kg | 11.8       |          | 5               | YES        | NV               |
| Lead         | Target       | 8.7               |                 | mg/kg | 8.7        |          | 5               | YES        | NV               |
| Manganese    | Target       | 210               |                 | mg/kg | 210        |          | 5               | YES        | NV               |
| Nickel       | Target       | 11.8              |                 | mg/kg | 11.8       | X*       | 5               | YES        | NV               |
| Selenium     | Target       | 14.3              | U               | mg/kg | 14.3       | U        | 5               | YES        | NV               |
| Silver       | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 2.9               | U               | mg/kg | 2.9        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 33.6              |                 | mg/kg | 33.6       | X*       | 5               | YES        | NV               |
| Zinc         | Target       | 27.8              |                 | mg/kg | 27.8       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4S | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                               | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.57              |                 | mg/kg | 0.57       |          | 1               | YES        | NV               |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B56

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC4S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/18/2020 | Sample Time: 15:00:00 |
| % Moisture:            |                          | % Solids: 83.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 10.6              |                 | mg/kg | 10.6       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | NV               |
| Barium       | Spike        | 258               |                 | mg/kg | 258        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 47.0              |                 | mg/kg | 47.0       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 65.1              |                 | mg/kg | 65.1       |          | 1               | YES        | NV               |
| Copper       | Spike        | 42.7              |                 | mg/kg | 42.7       |          | 1               | YES        | NV               |
| Lead         | Spike        | 10.9              |                 | mg/kg | 10.9       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 274               |                 | mg/kg | 274        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 70.5              |                 | mg/kg | 70.5       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 12.0              |                 | mg/kg | 12.0       |          | 1               | YES        | NV               |
| Silver       | Spike        | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.1               |                 | mg/kg | 5.1        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 103               |                 | mg/kg | 103        |          | 1               | YES        | NV               |
| Zinc         | Spike        | 86.5              |                 | mg/kg | 86.5       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

Sample Number: PBS712

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS746 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.49             | J               | mg/kg | -0.49      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL50 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B56

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/6/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0B84 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

**(b) (4)**

TO: #0002 TDF: #1220035





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 4, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOB84

### Overview

This data package consisted of one (1) rinsate blank and twelve (12) soil samples, including five (5) field duplicate samples, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 9, 2020.

Samples MCOBF9 (from SDG MCOAX9), MCOAY0 and MCOB48 (both from SDG MCOAW3) were associated with field duplicates MCOBG0, MCOBG5 and MCOBG7, respectively, and were used in evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Blank contamination issues required qualification of sample data.

**Minor Problem**

Laboratory instrumentation reported negative values for arsenic (As) and selenium (Se) greater than the absolute values of the Method Detection Limits (MDLs) in blank analyses. Quantitation limits for Se in associated soil samples and for As in rinsate blank MCOBG3 are estimated and have been qualified "UJ".

**Notes**

Detected concentrations for target analytes less than the Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Antimony (Sb) has been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in laboratory blanks associated with the samples in this SDG. Detected concentrations for these analytes less than the CRQL in associated samples have been reported at the CRQL and qualified "U".

Rinsate blank MCOBG3 reported concentrations for manganese (Mn) and zinc (Zn) less than the CRQLs. Detected concentrations for these analytes in associated soil samples were greater than the CRQLs and not qualified based on these findings.

Laboratory duplicate, serial dilution, and Laboratory Control Sample analyses were within control limits.

The matrix spike recovery was low (<75%) for silver (Ag) in soil sample MCOB84. The post-digestion spike recovery was within control limits. The detected concentration for Ag in this sample is less than the CRQL and qualified "J".

Matrix spike recoveries were outside control limits for lead (Pb) and Mn in soil sample MCOB84. The initial concentrations of these analytes were greater than four times (>4X) the amount of the respective spikes added. No data were qualified.

Concentrations for Mn exceeded the calibration range in the initial analysis for soil samples MCOBA9 and MCOBB2. These samples were reanalyzed at two-fold (2X) dilutions in order to quantitate Mn within the calibration range. Results were reported from the dilutions.

Results reported for field duplicate pairs MCOBA8/MCOBG6 and MCOBG1/MCOBG2 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes. No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOBF9/MCOBG0 were comparable (within control limits of RPD or  $\pm$  CRQL) for all analytes except cadmium (Cd). No data were qualified based on field duplicate precision.

Results reported for field duplicate pair MCOAY0/MCOBG5 were comparable (within control limits of RPD or  $\pm$  CRQL) for all analytes except As, barium (Ba), Ca, chromium (Cr), copper (Cu), Pb, Mg, Mn, nickel (Ni), and Zn. No data were qualified based on field duplicate precision.



Results reported for field duplicate pair MCOB48/MCOBG7 were comparable (within control limits of RPD or  $\pm$  CRQL) for all analytes except Cr, cobalt (Co), Pb, Mn, Ni, vanadium (V), and Zn. No data were qualified based on field duplicate precision.

Sample calculation checks were performed for all analyses on soil sample MCOB84, on the ICP-AES and ICP-MS Laboratory Control Sample analyses for the aqueous matrix and on rinsate blank MCOBG3 for Hg analysis. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

---

|            |  |
|------------|--|
| Validation | In order of descending precedence. Only one of these qualifiers may apply to any |
| Qualifiers | result.  |

---

- |    |   |
|----|---|
| R  | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                          |
| U  | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| B  | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| J  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+ | The result is an estimated quantity, but the result may be biased high.   |
| J- | The result is an estimated quantity, but the result may be biased low.  |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: LCS708

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.6              |                 | mg/kg | 39.6       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1070              |                 | mg/kg | 1070       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.1              |                 | mg/kg | 22.1       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 985               |                 | mg/kg | 985        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 947               |                 | mg/kg | 947        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 991               |                 | mg/kg | 991        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: LCS713 | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 393               |                 | ug/L  | 393        |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 10800             |                 | ug/L  | 10800      |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 226               |                 | ug/L  | 226        |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 9990              |                 | ug/L  | 9990       |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 9520              |                 | ug/L  | 9520       |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 9760              |                 | ug/L  | 9760       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS734 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.4               |                 | mg/kg | 9.4        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.90              |                 | mg/kg | 0.90       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.1               |                 | mg/kg | 4.1        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 1.8               |                 | mg/kg | 1.8        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS737 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 3.7               |                 | ug/L  | 3.7        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 19.7              |                 | ug/L  | 19.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 3.7               |                 | ug/L  | 3.7        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 4.2               |                 | ug/L  | 4.2        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 9.7               |                 | ug/L  | 9.7        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.8               |                 | ug/L  | 1.8        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 8.8               |                 | ug/L  | 8.8        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 4.3               |                 | ug/L  | 4.3        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0B84

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-153

pH:

Sample Date: 11/16/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0B84

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-153

pH:

Sample Date: 11/16/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9350              |                 | mg/kg | 9350       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 4990              |                 | mg/kg | 4990       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19300             |                 | mg/kg | 19300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1980              |                 | mg/kg | 1980       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 818               |                 | mg/kg | 818        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 113               | J               | mg/kg | 113        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B84       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-153 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:                 |                          | % Solids: 71.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 1.3        | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 65.4              |                 | mg/kg | 65.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.44              | J               | mg/kg | 0.44       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.79              |                 | mg/kg | 0.79       |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 24.8              |                 | mg/kg | 24.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 33.1              |                 | mg/kg | 33.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 151               |                 | mg/kg | 151        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 342               |                 | mg/kg | 342        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.8              |                 | mg/kg | 10.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.5               | UJ              | mg/kg | 3.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.20              | J               | mg/kg | 0.20       | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.091             | J               | mg/kg | 0.091      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.9              |                 | mg/kg | 21.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 157               |                 | mg/kg | 157        |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0B84A

Method: Metals by ICP-MS

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/16/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Silver       | Spike        | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                        |                               |                         |                       |
|------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B84D | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                           | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:            |                               | % Solids: 71.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.083             | J               | mg/kg | 0.083      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0B84D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/16/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9720              |                 | mg/kg | 9720       |          | 1               | YES        | NV               |
| Calcium      | Target       | 5300              |                 | mg/kg | 5300       |          | 1               | YES        | NV               |
| Iron         | Target       | 20300             |                 | mg/kg | 20300      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 2110              |                 | mg/kg | 2110       |          | 1               | YES        | NV               |
| Potassium    | Target       | 804               |                 | mg/kg | 804        |          | 1               | YES        | NV               |
| Sodium       | Target       | 704               | U               | mg/kg | 704        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B84D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:            |                          | % Solids: 71.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | J               | mg/kg | 1.1        | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 7.7               |                 | mg/kg | 7.7        |          | 1               | YES        | NV               |
| Barium       | Target       | 64.9              |                 | mg/kg | 64.9       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.78              |                 | mg/kg | 0.78       |          | 1               | YES        | NV               |
| Chromium     | Target       | 23.4              |                 | mg/kg | 23.4       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | NV               |
| Copper       | Target       | 32.3              |                 | mg/kg | 32.3       |          | 1               | YES        | NV               |
| Lead         | Target       | 151               |                 | mg/kg | 151        |          | 1               | YES        | NV               |
| Manganese    | Target       | 328               |                 | mg/kg | 328        |          | 1               | YES        | NV               |
| Nickel       | Target       | 10.4              |                 | mg/kg | 10.4       |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.19              | J               | mg/kg | 0.19       | J        | 1               | YES        | NV               |
| Thallium     | Target       | 0.70              | U               | mg/kg | 0.70       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 21.0              |                 | mg/kg | 21.0       |          | 1               | YES        | NV               |
| Zinc         | Target       | 155               |                 | mg/kg | 155        |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B84L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 71.0 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9730              |                 | mg/kg | 9730       |          | 5               | YES        | NV               |
| Calcium      | Target       | 5340              |                 | mg/kg | 5340       |          | 5               | YES        | NV               |
| Iron         | Target       | 20800             |                 | mg/kg | 20800      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 2130              | J               | mg/kg | 2130       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 701               | J               | mg/kg | 701        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3350              | U               | mg/kg | 3350       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B84L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 71.0 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.6               | J               | mg/kg | 2.6        | J        | 5               | YES        | NV               |
| Arsenic      | Target       | 7.8               |                 | mg/kg | 7.8        |          | 5               | YES        | NV               |
| Barium       | Target       | 70.0              |                 | mg/kg | 70.0       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.53              | J               | mg/kg | 0.53       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 0.86              | J               | mg/kg | 0.86       | J        | 5               | YES        | NV               |
| Chromium     | Target       | 23.3              |                 | mg/kg | 23.3       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 5               | YES        | NV               |
| Copper       | Target       | 33.1              |                 | mg/kg | 33.1       |          | 5               | YES        | NV               |
| Lead         | Target       | 158               |                 | mg/kg | 158        |          | 5               | YES        | NV               |
| Manganese    | Target       | 323               |                 | mg/kg | 323        |          | 5               | YES        | NV               |
| Nickel       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 5               | YES        | NV               |
| Selenium     | Target       | 17.6              | U               | mg/kg | 17.6       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.5               | U               | mg/kg | 3.5        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 20.9              |                 | mg/kg | 20.9       |          | 5               | YES        | NV               |
| Zinc         | Target       | 159               |                 | mg/kg | 159        |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0B84S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/16/2020

Sample Time: 12:35:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.74              |                 | mg/kg | 0.74       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B84S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/16/2020 | Sample Time: 12:35:00 |
| % Moisture:            |                          | % Solids: 71.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 12.5              |                 | mg/kg | 12.5       |          | 1               | YES        | NV               |
| Barium       | Spike        | 318               |                 | mg/kg | 318        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 7.6               |                 | mg/kg | 7.6        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 50.8              |                 | mg/kg | 50.8       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 66.6              |                 | mg/kg | 66.6       |          | 1               | YES        | NV               |
| Copper       | Spike        | 64.5              |                 | mg/kg | 64.5       |          | 1               | YES        | NV               |
| Lead         | Spike        | 152               |                 | mg/kg | 152        |          | 1               | YES        | NV               |
| Manganese    | Spike        | 387               |                 | mg/kg | 387        |          | 1               | YES        | NV               |
| Nickel       | Spike        | 74.8              |                 | mg/kg | 74.8       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | NV               |
| Silver       | Spike        | 5.0               |                 | mg/kg | 5.0        | *        | 1               | YES        | NV               |
| Thallium     | Spike        | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 88.7              |                 | mg/kg | 88.7       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 221               |                 | mg/kg | 221        |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                               | % Solids: 80.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.012      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                           | % Solids: 80.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15700             |                 | mg/kg | 15700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 513               | J               | mg/kg | 513        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 25900             |                 | mg/kg | 25900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3200              |                 | mg/kg | 3200       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1010              |                 | mg/kg | 1010       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 586               | U               | mg/kg | 586        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-111 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                          | % Solids: 80.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.20       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.9               |                 | mg/kg | 3.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 39.0              |                 | mg/kg | 39.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.73              |                 | mg/kg | 0.73       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.078             | J               | mg/kg | 0.078      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.5              |                 | mg/kg | 26.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.8               |                 | mg/kg | 7.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 261               |                 | mg/kg | 261        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.2              |                 | mg/kg | 13.2       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.61              | U               | mg/kg | 0.61       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.15              | J               | mg/kg | 0.15       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 46.3              |                 | mg/kg | 46.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 37.6              |                 | mg/kg | 37.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                               | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.014      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA6       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                           | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 16000             |                 | mg/kg | 16000      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 448               | J               | mg/kg | 448        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 27400             |                 | mg/kg | 27400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 3090              |                 | mg/kg | 3090       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 989               |                 | mg/kg | 989        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 578               | U               | mg/kg | 578        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-112 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                          | % Solids: 80.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 38.2              |                 | mg/kg | 38.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.72              |                 | mg/kg | 0.72       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.62              | U               | mg/kg | 0.62       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.5              |                 | mg/kg | 20.5       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.2              |                 | mg/kg | 13.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.3               |                 | mg/kg | 8.3        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 259               |                 | mg/kg | 259        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.1              |                 | mg/kg | 11.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.62              | U               | mg/kg | 0.62       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 41.4              |                 | mg/kg | 41.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 33.8              |                 | mg/kg | 33.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                               | % Solids: 83.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0BA8

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-117

pH:

Sample Date: 11/17/2020

Sample Time: 12:40:00

% Moisture:

% Solids: 83.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 605               |                 | mg/kg | 605        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19800             |                 | mg/kg | 19800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2370              |                 | mg/kg | 2370       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 813               |                 | mg/kg | 813        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 580               | U               | mg/kg | 580        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:40:00 |
| % Moisture:                 |                          | % Solids: 83.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.5               |                 | mg/kg | 2.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 33.1              |                 | mg/kg | 33.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.079             | J               | mg/kg | 0.079      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 7.5               |                 | mg/kg | 7.5        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 249               |                 | mg/kg | 249        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.1               |                 | mg/kg | 8.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | U               | mg/kg | 0.59       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.59              | U               | mg/kg | 0.59       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 23.2              |                 | mg/kg | 23.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0BA9

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-SB-118

pH:

Sample Date: 11/17/2020

Sample Time: 13:55:00

% Moisture:

% Solids: 82.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.015      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA9       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-118 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                           | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12700             |                 | mg/kg | 12700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 933               |                 | mg/kg | 933        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24800             |                 | mg/kg | 24800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2610              |                 | mg/kg | 2610       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 972               |                 | mg/kg | 972        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 586               | U               | mg/kg | 586        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BA9       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-118 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 13:55:00 |
| % Moisture:                 |                          | % Solids: 82.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 33.8              |                 | mg/kg | 33.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.58              | J               | mg/kg | 0.58       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.8              |                 | mg/kg | 15.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 8.5               |                 | mg/kg | 8.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 11.0              |                 | mg/kg | 11.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 11.6              |                 | mg/kg | 11.6       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 309               |                 | mg/kg | 309        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.0               | UJ              | mg/kg | 3.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.59              | U               | mg/kg | 0.59       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.096             | J               | mg/kg | 0.096      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 30.0              |                 | mg/kg | 30.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 30.7              |                 | mg/kg | 30.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-123 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                               | % Solids: 84.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.010      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0BB2

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-123

pH:

Sample Date: 11/17/2020

Sample Time: 14:40:00

% Moisture:

% Solids: 84.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13500             |                 | mg/kg | 13500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 483               | J               | mg/kg | 483        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 22700             |                 | mg/kg | 22700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1850              |                 | mg/kg | 1850       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 643               |                 | mg/kg | 643        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 552               | U               | mg/kg | 552        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BB2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-123 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 14:40:00 |
| % Moisture:                 |                          | % Solids: 84.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.2               |                 | mg/kg | 4.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.3              |                 | mg/kg | 54.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.63              |                 | mg/kg | 0.63       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.077             | J               | mg/kg | 0.077      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 19.8              |                 | mg/kg | 19.8       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.0               |                 | mg/kg | 9.0        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 13.4              |                 | mg/kg | 13.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 314               |                 | mg/kg | 314        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.3               |                 | mg/kg | 9.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.10              | J               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.8              |                 | mg/kg | 36.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 28.6              |                 | mg/kg | 28.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG0          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168-01 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                               | % Solids: 76.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.10       | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG0          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168-01 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                           | % Solids: 76.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1140              |                 | mg/kg | 1140       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19700             |                 | mg/kg | 19700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1920              |                 | mg/kg | 1920       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 701               |                 | mg/kg | 701        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 632               | U               | mg/kg | 632        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG0          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-168-01 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 08:05:00 |
| % Moisture:                    |                          | % Solids: 76.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.87       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.47              | J               | mg/kg | 0.47       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 18.0              |                 | mg/kg | 18.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.7              |                 | mg/kg | 14.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 40.0              |                 | mg/kg | 40.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 248               |                 | mg/kg | 248        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 8.6               |                 | mg/kg | 8.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.0              |                 | mg/kg | 23.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 43.4              |                 | mg/kg | 43.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                               | % Solids: 79.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.070      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0BG1

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SS-168

pH:

Sample Date: 11/16/2020

Sample Time: 13:30:00

% Moisture:

% Solids: 79.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10200             |                 | mg/kg | 10200      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2500              |                 | mg/kg | 2500       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19900             |                 | mg/kg | 19900      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2430              |                 | mg/kg | 2430       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 669               |                 | mg/kg | 669        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 616               | U               | mg/kg | 616        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                          | % Solids: 79.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 42.4              |                 | mg/kg | 42.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.6              |                 | mg/kg | 16.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.2              |                 | mg/kg | 17.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 47.3              |                 | mg/kg | 47.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 252               |                 | mg/kg | 252        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.2              |                 | mg/kg | 12.2       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.091             | J               | mg/kg | 0.091      | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.088             | J               | mg/kg | 0.088      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 22.6              |                 | mg/kg | 22.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 87.9              |                 | mg/kg | 87.9       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG2          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                           | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                               | % Solids: 80.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.075      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG2          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                           | % Solids: 80.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9940              |                 | mg/kg | 9940       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2560              |                 | mg/kg | 2560       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19700             |                 | mg/kg | 19700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2440              |                 | mg/kg | 2440       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 656               |                 | mg/kg | 656        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 607               | U               | mg/kg | 607        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG2          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168-01 | pH:                      | Sample Date: 11/16/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                          | % Solids: 80.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 0.59       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 41.8              |                 | mg/kg | 41.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.48              | J               | mg/kg | 0.48       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.7              |                 | mg/kg | 15.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.9              |                 | mg/kg | 16.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 47.0              |                 | mg/kg | 47.0       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 253               |                 | mg/kg | 253        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 11.8              |                 | mg/kg | 11.8       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.085             | J               | mg/kg | 0.085      | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.085             | J               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.3              |                 | mg/kg | 23.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 88.3              |                 | mg/kg | 88.3       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0BG3

Method: Mercury by Cold Vapor

Matrix: Water

MA Number:

Sample Location: NLR-RB-SB-01

pH: 2.

Sample Date: 11/17/2020

Sample Time: 15:30:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.077      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: MC0BG3

Method: Metals by ICP-AES

Matrix: Water

MA Number:

Sample Location: NLR-RB-SB-01

pH: 2.

Sample Date: 11/17/2020

Sample Time: 15:30:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                               |                          |                         |                       |
|-------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG3         | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SB-01 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 0.42       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | UJ              | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.23              | J               | ug/L  | 0.23       | J        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.5               | J               | ug/L  | 1.5        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: MC0BG3L | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                    | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 1000              | U               | mg/L  | 1000       | U        | 5               | YES        | S4VEM            |
| Calcium      | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | S4VEM            |
| Iron         | Target       | 500               | U               | mg/L  | 500        | U        | 5               | YES        | S4VEM            |
| Magnesium    | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | S4VEM            |
| Potassium    | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | S4VEM            |
| Sodium       | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                        |                          |               |              |
|------------------------|--------------------------|---------------|--------------|
| Sample Number: MC0BG3L | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:            |                          | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | S4VEM            |
| Arsenic      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Barium       | Target       | 50.0              | U               | mg/L  | 50.0       | U        | 5               | YES        | S4VEM            |
| Beryllium    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Cadmium      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Chromium     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | S4VEM            |
| Cobalt       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Copper       | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | S4VEM            |
| Lead         | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Manganese    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Selenium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | S4VEM            |
| Silver       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Thallium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | S4VEM            |
| Vanadium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | S4VEM            |
| Zinc         | Target       | 2.3               | J               | mg/L  | 2.3        | J        | 5               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG5          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                               | % Solids: 71.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | U               | mg/kg | 0.052      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG5          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                           | % Solids: 71.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 12900             |                 | mg/kg | 12900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2900              |                 | mg/kg | 2900       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24800             |                 | mg/kg | 24800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2300              |                 | mg/kg | 2300       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1050              |                 | mg/kg | 1050       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 662               | U               | mg/kg | 662        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG5          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-117-01 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:00:00 |
| % Moisture:                    |                          | % Solids: 71.3          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.4               | U               | mg/kg | 0.98       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 49.0              |                 | mg/kg | 49.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.36              | J               | mg/kg | 0.36       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 15.9              |                 | mg/kg | 15.9       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 36.2              |                 | mg/kg | 36.2       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 216               |                 | mg/kg | 216        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.5              |                 | mg/kg | 10.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.4               | UJ              | mg/kg | 3.4        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.69              | U               | mg/kg | 0.69       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.094             | J               | mg/kg | 0.094      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 28.3              |                 | mg/kg | 28.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 78.9              |                 | mg/kg | 78.9       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG6          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                               | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG6          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                           | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 544               | J               | mg/kg | 544        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 18500             |                 | mg/kg | 18500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2050              |                 | mg/kg | 2050       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 802               |                 | mg/kg | 802        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 570               | U               | mg/kg | 570        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG6          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-117-01 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:10:00 |
| % Moisture:                    |                          | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.6               |                 | mg/kg | 2.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 32.5              |                 | mg/kg | 32.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.58              | U               | mg/kg | 0.58       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.4              |                 | mg/kg | 12.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 207               |                 | mg/kg | 207        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.9               | UJ              | mg/kg | 2.9        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.58              | U               | mg/kg | 0.58       | U*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.075             | J               | mg/kg | 0.075      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 21.5              |                 | mg/kg | 21.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 20.7              |                 | mg/kg | 20.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117-01 | pH:                           | Sample Date: 11/17/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                               | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | U               | mg/kg | 0.046      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117-01 | pH:                       | Sample Date: 11/17/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                           | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11300             |                 | mg/kg | 11300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2400              |                 | mg/kg | 2400       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 21100             |                 | mg/kg | 21100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2320              |                 | mg/kg | 2320       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 962               |                 | mg/kg | 962        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 622               | U               | mg/kg | 622        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BG7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-117-01 | pH:                      | Sample Date: 11/17/2020 | Sample Time: 12:05:00 |
| % Moisture:                    |                          | % Solids: 75.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.62       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 40.6              |                 | mg/kg | 40.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.52              | J               | mg/kg | 0.52       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.34              | J               | mg/kg | 0.34       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.1              |                 | mg/kg | 17.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 17.1              |                 | mg/kg | 17.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 32.8              |                 | mg/kg | 32.8       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 280               |                 | mg/kg | 280        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | UJ              | mg/kg | 3.3        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.093             | J               | mg/kg | 0.093      | J*       | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.085             | J               | mg/kg | 0.085      | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 26.0              |                 | mg/kg | 26.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 87.7              |                 | mg/kg | 87.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

Sample Number: PBS708

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS734 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.32              | J               | mg/kg | 0.32       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.47             | J               | mg/kg | -0.47      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | -0.24             | J               | mg/kg | -0.24      | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL42 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.10              | U               | mg/kg | 0.10       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBW713 | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBW737 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | -0.14             | J               | ug/L  | -0.14      | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B84

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBWL46 | Method: Mercury by Cold Vapor | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.050             | J               | ug/L  | 0.050      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B84

**Lab Name:** CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE: 1/26/2021

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0B89 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #0121007





ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 25, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOB89

### **Overview**

This data package consisted of one (1) rinsate blank and five (5) soil samples analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager and additional information dated December 29, 2020.

### **Summary**

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Blank contamination issue required qualification of sample data.

### **Minor Problem**

Laboratory instrumentation reported negative values for Hg greater than the absolute value of the Method Detection Limit (MDL) in blank analyses associated with the soil samples. Detected concentrations for Hg in soil samples MCOB89 and MCOBJ0, which were less than the Contract Required Quantitation Limit (CRQL), were reported at the CRQL and qualified "UJ".

**Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Antimony (Sb), chromium (Cr), selenium (Se) and zinc (Zn) have been detected in laboratory blanks associated with the samples in this SDG. Target analyte Hg has been detected in a laboratory blank associated with rinsate blank MCOBH8. Detected concentration for these analytes in associated samples less than the CRQL have been reported at the CRQL and qualified "U".

Rinsate blank MCOBH8 was free from contamination.

Target analyte Hg matrix spike, laboratory duplicate, ICP-MS serial dilution, and Laboratory Control Sample (LCS) analyses were within control limits.

The matrix spike recovery was outside control limits for lead (Pb) in sample MCOB89. The initial concentration of Pb was greater than four times (>4X) the amount of the spike added. No data were qualified.

Concentrations for manganese (Mn) exceeded the calibration range in the initial analysis for samples MCOB89, MCOB96, MCOB98, MCOBJ0 and MCOBJ1. These samples were reanalyzed at two-fold (2X) dilutions in order to quantitate Mn within the calibration range. Results were reported from the dilutions.

Sample calculation checks were performed on samples MCOB89, MCOBH8 and the ICP-AES LCS. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.



**Glossary of Inorganic Data Qualifier Codes**

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Validation    In order of descending precedence. Only one of these qualifiers may apply to any  
Qualifiers    result.

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- R            The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ           The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U            The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B            The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J            The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+           The result is an estimated quantity, but the result may be biased high.
- J-           The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: BLK751 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 1.4               | J               | ug/L  | 1.4        | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: LCS718 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 38.9              |                 | mg/kg | 38.9       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1080              |                 | mg/kg | 1080       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.4              |                 | mg/kg | 22.4       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 984               |                 | mg/kg | 984        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 943               |                 | mg/kg | 943        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 958               |                 | mg/kg | 958        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: LCS723 | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 383               |                 | ug/L  | 383        |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 10500             |                 | ug/L  | 10500      |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 217               |                 | ug/L  | 217        |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 9590              |                 | ug/L  | 9590       |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 9310              |                 | ug/L  | 9310       |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 9460              |                 | ug/L  | 9460       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS750 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 0.99              |                 | mg/kg | 0.99       |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS751 | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 3.7               |                 | ug/L  | 3.7        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 21.1              |                 | ug/L  | 21.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 2.1               |                 | ug/L  | 2.1        |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 4.2               |                 | ug/L  | 4.2        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 2.2               |                 | ug/L  | 2.2        |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 4.3               |                 | ug/L  | 4.3        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 2.2               |                 | ug/L  | 2.2        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 2.2               |                 | ug/L  | 2.2        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 12.8              |                 | ug/L  | 12.8       |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 1.9               |                 | ug/L  | 1.9        |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 2.0               |                 | ug/L  | 2.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 10.2              |                 | ug/L  | 10.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 4.1               |                 | ug/L  | 4.1        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0B89

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location: NLR-CS-158

pH:

Sample Date: 12/02/2020

Sample Time: 13:35:00

% Moisture:

% Solids: 75.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.086      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0B89

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-158

pH:

Sample Date: 12/02/2020

Sample Time: 13:35:00

% Moisture:

% Solids: 75.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9000              |                 | mg/kg | 9000       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1840              |                 | mg/kg | 1840       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19500             |                 | mg/kg | 19500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2150              |                 | mg/kg | 2150       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 960               |                 | mg/kg | 960        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 641               | U               | mg/kg | 641        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B89       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-158 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                          | % Solids: 75.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.45       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.3              |                 | mg/kg | 43.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.0              |                 | mg/kg | 12.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.0              |                 | mg/kg | 14.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 89.7              |                 | mg/kg | 89.7       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 335               |                 | mg/kg | 335        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 25.3              |                 | mg/kg | 25.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 77.7              |                 | mg/kg | 77.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0B89D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 12/02/2020

Sample Time: 13:35:00

% Moisture:

% Solids: 75.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.085             | J               | mg/kg | 0.085      | J        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                        |                           |                         |                       |
|------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0B89D | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                       | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:            |                           | % Solids: 75.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9000              |                 | mg/kg | 9000       |          | 1               | YES        | NV               |
| Calcium      | Target       | 1850              |                 | mg/kg | 1850       |          | 1               | YES        | NV               |
| Iron         | Target       | 19500             |                 | mg/kg | 19500      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 2160              |                 | mg/kg | 2160       |          | 1               | YES        | NV               |
| Potassium    | Target       | 934               |                 | mg/kg | 934        |          | 1               | YES        | NV               |
| Sodium       | Target       | 641               | U               | mg/kg | 641        | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B89D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:            |                          | % Solids: 75.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | NV               |
| Arsenic      | Target       | 2.3               |                 | mg/kg | 2.3        |          | 1               | YES        | NV               |
| Barium       | Target       | 44.3              |                 | mg/kg | 44.3       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.41              | J               | mg/kg | 0.41       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | NV               |
| Chromium     | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 5.6               |                 | mg/kg | 5.6        |          | 1               | YES        | NV               |
| Copper       | Target       | 14.2              |                 | mg/kg | 14.2       |          | 1               | YES        | NV               |
| Lead         | Target       | 91.3              |                 | mg/kg | 91.3       |          | 1               | YES        | NV               |
| Manganese    | Target       | 338               |                 | mg/kg | 338        | D        | 2               | YES        | NV               |
| Nickel       | Target       | 6.7               |                 | mg/kg | 6.7        |          | 1               | YES        | NV               |
| Selenium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 25.6              |                 | mg/kg | 25.6       |          | 1               | YES        | NV               |
| Zinc         | Target       | 77.5              |                 | mg/kg | 77.5       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0B89L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 75.7 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9350              |                 | mg/kg | 9350       |          | 5               | YES        | NV               |
| Calcium      | Target       | 1950              | J               | mg/kg | 1950       | J        | 5               | YES        | NV               |
| Iron         | Target       | 21100             |                 | mg/kg | 21100      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 2250              | J               | mg/kg | 2250       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 956               | J               | mg/kg | 956        | J        | 5               | YES        | NV               |
| Sodium       | Target       | 3210              | U               | mg/kg | 3210       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0B89L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 75.7 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 6.3               | U               | mg/kg | 6.3        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 2.3               | J               | mg/kg | 2.3        | J        | 5               | YES        | NV               |
| Barium       | Target       | 46.2              |                 | mg/kg | 46.2       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 12.0              |                 | mg/kg | 12.0       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 5               | YES        | NV               |
| Copper       | Target       | 14.0              |                 | mg/kg | 14.0       |          | 5               | YES        | NV               |
| Lead         | Target       | 97.8              |                 | mg/kg | 97.8       |          | 5               | YES        | NV               |
| Manganese    | Target       | 346               |                 | mg/kg | 346        | D        | 10              | YES        | NV               |
| Nickel       | Target       | 6.7               |                 | mg/kg | 6.7        |          | 5               | YES        | NV               |
| Selenium     | Target       | 15.7              | U               | mg/kg | 15.7       | U        | 5               | YES        | NV               |
| Silver       | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 3.1               | U               | mg/kg | 3.1        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 23.4              |                 | mg/kg | 23.4       |          | 5               | YES        | NV               |
| Zinc         | Target       | 77.5              |                 | mg/kg | 77.5       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0B89S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 12/02/2020

Sample Time: 13:35:00

% Moisture:

% Solids: 75.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.78              |                 | mg/kg | 0.78       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B89S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 12/02/2020 | Sample Time: 13:35:00 |
| % Moisture:            |                          | % Solids: 75.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 12.6              |                 | mg/kg | 12.6       |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | NV               |
| Barium       | Spike        | 283               |                 | mg/kg | 283        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 6.4               |                 | mg/kg | 6.4        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 37.9              |                 | mg/kg | 37.9       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 68.7              |                 | mg/kg | 68.7       |          | 1               | YES        | NV               |
| Copper       | Spike        | 46.3              |                 | mg/kg | 46.3       |          | 1               | YES        | NV               |
| Lead         | Spike        | 93.2              |                 | mg/kg | 93.2       |          | 1               | YES        | NV               |
| Manganese    | Spike        | 400               |                 | mg/kg | 400        | D        | 2               | YES        | NV               |
| Nickel       | Spike        | 68.8              |                 | mg/kg | 68.8       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 13.4              |                 | mg/kg | 13.4       |          | 1               | YES        | NV               |
| Silver       | Spike        | 6.3               |                 | mg/kg | 6.3        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 90.6              |                 | mg/kg | 90.6       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 140               |                 | mg/kg | 140        |          | 1               | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B96       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-165 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                               | % Solids: 73.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.16              |                 | mg/kg | 0.16       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0B96

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-165

pH:

Sample Date: 12/02/2020

Sample Time: 14:15:00

% Moisture:

% Solids: 73.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10400             |                 | mg/kg | 10400      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1250              |                 | mg/kg | 1250       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19600             |                 | mg/kg | 19600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1480              |                 | mg/kg | 1480       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 507               | J               | mg/kg | 507        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 653               | U               | mg/kg | 653        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B96       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-165 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                          | % Solids: 73.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.60       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.7               |                 | mg/kg | 3.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 76.1              |                 | mg/kg | 76.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.69              |                 | mg/kg | 0.69       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.37              | J               | mg/kg | 0.37       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 13.3              |                 | mg/kg | 13.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 30.0              |                 | mg/kg | 30.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 167               |                 | mg/kg | 167        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 516               |                 | mg/kg | 516        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 0.79       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.65              | U               | mg/kg | 0.65       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 26.9              |                 | mg/kg | 26.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 94.3              |                 | mg/kg | 94.3       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0B98       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-167 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                               | % Solids: 74.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              |                 | mg/kg | 0.13       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0B98

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-CS-167

pH:

Sample Date: 12/02/2020

Sample Time: 14:55:00

% Moisture:

% Solids: 74.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9140              |                 | mg/kg | 9140       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 970               |                 | mg/kg | 970        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15800             |                 | mg/kg | 15800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1350              |                 | mg/kg | 1350       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 466               | J               | mg/kg | 466        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 636               | U               | mg/kg | 636        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0B98       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-167 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 14:55:00 |
| % Moisture:                 |                          | % Solids: 74.9          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.66       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.6               |                 | mg/kg | 3.6        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 61.1              |                 | mg/kg | 61.1       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.59              | J               | mg/kg | 0.59       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 12.1              |                 | mg/kg | 12.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.5               |                 | mg/kg | 5.5        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.6              |                 | mg/kg | 18.6       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 125               |                 | mg/kg | 125        |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 363               |                 | mg/kg | 363        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | U               | mg/kg | 0.86       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.099             | J               | mg/kg | 0.099      | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.9              |                 | mg/kg | 24.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 73.2              |                 | mg/kg | 73.2       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                               |                               |                         |                       |
|-------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH8         | Method: Mercury by Cold Vapor | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SS-01 | pH: 2.                        | Sample Date: 12/02/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                               | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.13       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

Sample Number: MC0BH8

Method: Metals by ICP-AES

Matrix: Water

MA Number:

Sample Location: NLR-RB-SS-01

pH: 2.

Sample Date: 12/02/2020

Sample Time: 15:30:00

% Moisture:

% Solids:

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                               |                          |                         |                       |
|-------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH8         | Method: Metals by ICP-MS | Matrix: Water           | MA Number:            |
| Sample Location: NLR-RB-SS-01 | pH: 2.                   | Sample Date: 12/02/2020 | Sample Time: 15:30:00 |
| % Moisture:                   |                          | % Solids:               |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 10.0              | U               | ug/L  | 10.0       | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 2.0               | U               | ug/L  | 0.38       | J        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.0               | U               | ug/L  | 2.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 5.0               | U               | ug/L  | 2.2        | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 1.0               | U               | ug/L  | 1.0        | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 2.0               | U               | ug/L  | 1.1        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: MC0BH8L | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                    | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 1000              | U               | mg/L  | 1000       | U        | 5               | YES        | NV               |
| Calcium      | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |
| Iron         | Target       | 500               | U               | mg/L  | 500        | U        | 5               | YES        | NV               |
| Magnesium    | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |
| Potassium    | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |
| Sodium       | Target       | 25000             | U               | mg/L  | 25000      | U        | 5               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                        |                          |               |              |
|------------------------|--------------------------|---------------|--------------|
| Sample Number: MC0BH8L | Method: Metals by ICP-MS | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 2.                   | Sample Date:  | Sample Time: |
| % Moisture:            |                          | % Solids:     |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 1.3               | J               | mg/L  | 1.3        | J        | 5               | YES        | NV               |
| Barium       | Target       | 50.0              | U               | mg/L  | 50.0       | U        | 5               | YES        | NV               |
| Beryllium    | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Cadmium      | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 7.8               | J               | mg/L  | 7.8        | J        | 5               | YES        | NV               |
| Cobalt       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Copper       | Target       | 10.0              | U               | mg/L  | 10.0       | U        | 5               | YES        | NV               |
| Lead         | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Manganese    | Target       | 2.5               | J               | mg/L  | 2.5        | J        | 5               | YES        | NV               |
| Nickel       | Target       | 2.1               | J               | mg/L  | 2.1        | J        | 5               | YES        | NV               |
| Selenium     | Target       | 10.7              | J               | mg/L  | 10.7       | J        | 5               | YES        | NV               |
| Silver       | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 5.0               | U               | mg/L  | 5.0        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 25.0              | U               | mg/L  | 25.0       | U        | 5               | YES        | NV               |
| Zinc         | Target       | 10.4              |                 | mg/L  | 10.4       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BJ0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-170 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                               | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.075      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BJ0       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-170 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                           | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10700             |                 | mg/kg | 10700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1470              |                 | mg/kg | 1470       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 20800             |                 | mg/kg | 20800      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2110              |                 | mg/kg | 2110       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 868               |                 | mg/kg | 868        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 655               | U               | mg/kg | 655        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BJ0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-170 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 12:50:00 |
| % Moisture:                 |                          | % Solids: 72.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 43.2              |                 | mg/kg | 43.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | J               | mg/kg | 0.50       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.28              | J               | mg/kg | 0.28       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.0              |                 | mg/kg | 21.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.9               |                 | mg/kg | 5.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 16.7              |                 | mg/kg | 16.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 49.4              |                 | mg/kg | 49.4       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 358               |                 | mg/kg | 358        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | U               | mg/kg | 0.88       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | J               | mg/kg | 0.55       | J        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.4              |                 | mg/kg | 23.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 68.6              |                 | mg/kg | 68.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BJ1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                           | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                               | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              |                 | mg/kg | 0.12       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BJ1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                       | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                           | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10100             |                 | mg/kg | 10100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1320              |                 | mg/kg | 1320       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18600             |                 | mg/kg | 18600      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1820              |                 | mg/kg | 1820       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 666               |                 | mg/kg | 666        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 663               | U               | mg/kg | 663        | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BJ1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-170 | pH:                      | Sample Date: 12/02/2020 | Sample Time: 12:45:00 |
| % Moisture:                 |                          | % Solids: 72.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 0.24       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 51.2              |                 | mg/kg | 51.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              | J               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.29              | J               | mg/kg | 0.29       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 45.1              |                 | mg/kg | 45.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.8               |                 | mg/kg | 5.8        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 27.8              |                 | mg/kg | 27.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 57.3              |                 | mg/kg | 57.3       |          | 1               | YES        | S4VEM            |
| Manganese    | Target       | 441               |                 | mg/kg | 441        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 18.3              |                 | mg/kg | 18.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.3               | U               | mg/kg | 0.82       | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.67              | U               | mg/kg | 0.67       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 23.3              |                 | mg/kg | 23.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 83.0              |                 | mg/kg | 83.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS718 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10.0              | U               | mg/kg | 10.0       | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS750 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL54 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | -0.012            | J               | mg/kg | -0.012     | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0B89

**Lab Name:** CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBW723 | Method: Metals by ICP-AES | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 200               | U               | ug/L  | 200        | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 100               | U               | ug/L  | 100        | U        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 5000              | U               | ug/L  | 5000       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBWL55 | Method: Mercury by Cold Vapor | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.20              | U               | ug/L  | 0.20       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0B89

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



DATE:

SUBJECT: Region III Data QA Review

FROM: Eric Graybill  
Region III ESAT RPO (3LS20)

A handwritten signature in blue ink that reads "Eric Graybill".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# MC0BC0 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220080







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** January 21, 2021

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Inorganic Data Validation (S4VEM)  
Norwood Landfill  
49167 MCOBCO

### Overview

This data package consisted of thirteen (13) soil samples, including a field duplicate sample, analyzed for metals by ICP-AES and ICP-MS and for mercury (Hg) by cold vapor atomic absorption technique.

Analyses were performed by Chemtex (CHX) according to Contract Laboratory Program (CLP) Statement of Work (SOW) ISM02.4. Metals aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), and sodium (Na) are analyzed by ICP-AES with the remaining standard target analyte list (TAL) metals analyzed by ICP-MS.

Data were validated according to the National Functional Guidelines for Inorganic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Level Stage\_4\_Validation\_Electronic\_Manual (S4VEM).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 23, 2020.

Rinsate blanks MCOBG9 and MCOBH0 (from SDG MCOAY8) were associated with samples in this SDG and used in the evaluation of this data.

### Summary

No significant data quality outliers or technical deficiencies were identified that would require rejection of sample results. Serial dilution and blank contamination issues required estimation of sample data.

### Minor Problems

The percent difference (%D) in the ICP-MS serial dilution analysis was outside the control limit (>10%) for lead (Pb) in sample MCOBE4. The detected concentration for Pb is estimated in this sample and has been qualified "J".

Laboratory instrumentation reported a negative value for selenium (Se) greater than the absolute value of the Method Detection Limit (MDL) in a blank analysis. Quantitation limits for these analytes are estimated and qualified "UJ".

Laboratory instrumentation reported a negative value for Hg greater than the absolute value of the MDL in a blank analysis. Detected concentrations for Hg less than the Contract Required Quantitation Limit (CRQL) were reported at the CRQL and qualified "UJ". Quantitation limits for these analytes are estimated and qualified "UJ".

### **Notes**

Detected concentrations for target analytes less than the CRQLs are estimated and have been qualified "J".

Arsenic (As) has been detected in a laboratory blank associated with the samples in this SDG. The detected concentration for As in associated sample MC0BD6, which was less than the CRQL, has been reported at the CRQL and qualified "U".

Rinsate blank MC0BG9 reported concentrations for arsenic (As) and chromium (Cr) less than the CRQLs. Rinsate blank MC0BH0 reported concentrations for Cr and Ni less than the CRQLs and for zinc (Zn) greater than the CRQL. Detected concentrations for Zn were significantly greater than the blank concentration and not qualified based on this finding. The detected concentration for As in associated sample MC0BD6, which was less than the CRQL, has been reported at the CRQL and qualified "U". Detected concentrations for the remaining analytes were greater than the CRQLs and not qualified based on these findings.

Matrix spike, laboratory duplicate, ICP-AES serial dilution, and Laboratory Control Sample analyses were within control limits.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the samples listed below. These samples were reanalyzed at dilution in order to quantitate these analytes within the calibration range. Results were reported from the dilutions.

| <b>Sample(s)</b> | <b>Analyte(s)</b> | <b>Dilution</b> |
|------------------|-------------------|-----------------|
| MC0BD6, MC0BD7   | manganese (Mn)    | 2X              |
| MC0BD6           | Fe                | 2X              |
| MC0BD5           | Mn                | 5X              |

Results reported for field duplicate pair MC0BE2/MC0BH7 were comparable (within control limits of 25 Relative Percent Difference (RPD) or  $\pm$  CRQL) for all analytes except cobalt (Co) and Mn. No data were qualified based on field duplicate precision.

Sample calculation checks were performed on sample MC0BC0 for ICP-AES and ICP-MS and on a continuing calibration standard for Hg. All calculated results had Relative Percent Differences (RPDs) less than 5% of the reported results. No sample data were qualified.

Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation in addition to laboratory quality control samples.

### **Glossary of Inorganic Data Qualifier Codes**

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Validation Qualifiers    In order of descending precedence. Only one of these qualifiers may apply to any result.

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- R        The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- UJ        The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- U        The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
- B        The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
- J        The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+        The result is an estimated quantity, but the result may be biased high.
- J-        The result is an estimated quantity, but the result may be biased low.

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: LCS715

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Spike        | 39.2              |                 | mg/kg | 39.2       |          | 1               | YES        | S4VEM            |
| Calcium      | Spike        | 1080              |                 | mg/kg | 1080       |          | 1               | YES        | S4VEM            |
| Iron         | Spike        | 22.5              |                 | mg/kg | 22.5       |          | 1               | YES        | S4VEM            |
| Magnesium    | Spike        | 986               |                 | mg/kg | 986        |          | 1               | YES        | S4VEM            |
| Potassium    | Spike        | 957               |                 | mg/kg | 957        |          | 1               | YES        | S4VEM            |
| Sodium       | Spike        | 974               |                 | mg/kg | 974        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: LCS747 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Arsenic      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Barium       | Spike        | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Beryllium    | Spike        | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Cadmium      | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Chromium     | Spike        | 1.9               |                 | mg/kg | 1.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Spike        | 0.95              |                 | mg/kg | 0.95       |          | 1               | YES        | S4VEM            |
| Copper       | Spike        | 2.0               |                 | mg/kg | 2.0        |          | 1               | YES        | S4VEM            |
| Lead         | Spike        | 1.1               |                 | mg/kg | 1.1        |          | 1               | YES        | S4VEM            |
| Manganese    | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Nickel       | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Spike        | 4.5               |                 | mg/kg | 4.5        |          | 1               | YES        | S4VEM            |
| Silver       | Spike        | 0.98              |                 | mg/kg | 0.98       |          | 1               | YES        | S4VEM            |
| Thallium     | Spike        | 1.0               |                 | mg/kg | 1.0        |          | 1               | YES        | S4VEM            |
| Vanadium     | Spike        | 4.8               |                 | mg/kg | 4.8        |          | 1               | YES        | S4VEM            |
| Zinc         | Spike        | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC0       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-133 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                               | % Solids: 76.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.13              | UJ              | mg/kg | 0.13       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BC0

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-133

pH:

Sample Date: 11/18/2020

Sample Time: 12:15:00

% Moisture:

% Solids: 76.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 6600              |                 | mg/kg | 6600       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 191               | J               | mg/kg | 191        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 10300             |                 | mg/kg | 10300      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 952               |                 | mg/kg | 952        |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 224               | J               | mg/kg | 224        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 627               | U               | mg/kg | 627        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC0       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-133 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                          | % Solids: 76.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 1.3        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 29.2              |                 | mg/kg | 29.2       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.35              | J               | mg/kg | 0.35       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 2.1               |                 | mg/kg | 2.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 2.4               |                 | mg/kg | 2.4        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.9               |                 | mg/kg | 5.9        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 34.6              |                 | mg/kg | 34.6       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.63              | U               | mg/kg | 0.63       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 16.9              |                 | mg/kg | 16.9       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 19.4              |                 | mg/kg | 19.4       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC2       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                           | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9630              |                 | mg/kg | 9630       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1640              |                 | mg/kg | 1640       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 24000             |                 | mg/kg | 24000      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2140              |                 | mg/kg | 2140       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 648               |                 | mg/kg | 648        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 598               | U               | mg/kg | 598        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-137 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 69.9              |                 | mg/kg | 69.9       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.13              | J               | mg/kg | 0.13       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 22.4              |                 | mg/kg | 22.4       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 12.4              |                 | mg/kg | 12.4       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.1              |                 | mg/kg | 14.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.9               |                 | mg/kg | 8.9        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 175               |                 | mg/kg | 175        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 16.9              |                 | mg/kg | 16.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 35.5              |                 | mg/kg | 35.5       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 42.0              |                 | mg/kg | 42.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-139 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                               | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BC3

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-SB-139

pH:

Sample Date: 11/18/2020

Sample Time: 14:15:00

% Moisture:

% Solids: 85.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 8710              |                 | mg/kg | 8710       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 812               |                 | mg/kg | 812        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 13200             |                 | mg/kg | 13200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2280              |                 | mg/kg | 2280       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 608               |                 | mg/kg | 608        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 570               | U               | mg/kg | 570        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BC3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-139 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:15:00 |
| % Moisture:                 |                          | % Solids: 85.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.3               |                 | mg/kg | 4.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 55.4              |                 | mg/kg | 55.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.70              |                 | mg/kg | 0.70       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.16              | J               | mg/kg | 0.16       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 23.7              |                 | mg/kg | 23.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.0              |                 | mg/kg | 14.0       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 6.6               |                 | mg/kg | 6.6        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 50.1              |                 | mg/kg | 50.1       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 15.5              |                 | mg/kg | 15.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 31.3              |                 | mg/kg | 31.3       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 44.8              |                 | mg/kg | 44.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD3       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                               | % Solids: 85.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD3       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 85.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11800             |                 | mg/kg | 11800      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 367               | J               | mg/kg | 367        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 25500             |                 | mg/kg | 25500      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2900              |                 | mg/kg | 2900       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 609               |                 | mg/kg | 609        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 243               | J               | mg/kg | 243        | J        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD3       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-103 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                          | % Solids: 85.6          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 5.4               |                 | mg/kg | 5.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 64.6              |                 | mg/kg | 64.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.97              |                 | mg/kg | 0.97       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.12              | J               | mg/kg | 0.12       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 31.2              |                 | mg/kg | 31.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 15.5              |                 | mg/kg | 15.5       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.9              |                 | mg/kg | 13.9       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.3               |                 | mg/kg | 9.3        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 216               |                 | mg/kg | 216        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 13.7              |                 | mg/kg | 13.7       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.56              | U               | mg/kg | 0.56       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 45.6              |                 | mg/kg | 45.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 38.6              |                 | mg/kg | 38.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-110 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                               | % Solids: 87.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BD4

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-DB-110

pH:

Sample Date: 11/18/2020

Sample Time: 10:55:00

% Moisture:

% Solids: 87.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 7240              |                 | mg/kg | 7240       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 385               | J               | mg/kg | 385        | J        | 1               | YES        | S4VEM            |
| Iron         | Target       | 28700             |                 | mg/kg | 28700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1660              |                 | mg/kg | 1660       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 409               | J               | mg/kg | 409        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 542               | U               | mg/kg | 542        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-110 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 10:55:00 |
| % Moisture:                 |                          | % Solids: 87.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.99              | U               | mg/kg | 0.99       | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 64.7              |                 | mg/kg | 64.7       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.39              | J               | mg/kg | 0.39       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 21.7              |                 | mg/kg | 21.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.9               |                 | mg/kg | 4.9        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.1              |                 | mg/kg | 10.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.5               |                 | mg/kg | 5.5        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 69.7              |                 | mg/kg | 69.7       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.0              |                 | mg/kg | 10.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.5               | UJ              | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 14.6              |                 | mg/kg | 14.6       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 37.4              |                 | mg/kg | 37.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD5       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                               | % Solids: 88.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD5       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                           | % Solids: 88.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 13500             |                 | mg/kg | 13500      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 583               |                 | mg/kg | 583        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 23200             |                 | mg/kg | 23200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 4640              |                 | mg/kg | 4640       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 3190              |                 | mg/kg | 3190       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 208               | J               | mg/kg | 208        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD5       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-115 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 12:05:00 |
| % Moisture:                 |                          | % Solids: 88.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 84.8              |                 | mg/kg | 84.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.80              |                 | mg/kg | 0.80       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.088             | J               | mg/kg | 0.088      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 42.0              |                 | mg/kg | 42.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 14.0              |                 | mg/kg | 14.0       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 18.8              |                 | mg/kg | 18.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 5.9               |                 | mg/kg | 5.9        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 418               |                 | mg/kg | 418        | D        | 5               | YES        | S4VEM            |
| Nickel       | Target       | 22.0              |                 | mg/kg | 22.0       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.25              | J               | mg/kg | 0.25       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 42.8              |                 | mg/kg | 42.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 77.6              |                 | mg/kg | 77.6       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD6       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                               | % Solids: 53.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.18              | UJ              | mg/kg | 0.18       | U        | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD6       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                           | % Solids: 53.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 33100             |                 | mg/kg | 33100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 2190              |                 | mg/kg | 2190       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 66000             |                 | mg/kg | 66000      | D        | 2               | YES        | S4VEM            |
| Magnesium    | Target       | 12400             |                 | mg/kg | 12400      |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 7690              |                 | mg/kg | 7690       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 212               | J               | mg/kg | 212        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD6       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-119 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                          | % Solids: 53.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.7               | U               | mg/kg | 1.7        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.84              | U               | mg/kg | 0.56       | J        | 1               | YES        | S4VEM            |
| Barium       | Target       | 214               |                 | mg/kg | 214        |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 1.5               |                 | mg/kg | 1.5        |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.11              | J               | mg/kg | 0.11       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 67.3              |                 | mg/kg | 67.3       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 27.5              |                 | mg/kg | 27.5       |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 14.8              |                 | mg/kg | 14.8       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 11.2              |                 | mg/kg | 11.2       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 482               |                 | mg/kg | 482        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 51.5              |                 | mg/kg | 51.5       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 4.2               | UJ              | mg/kg | 4.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.84              | U               | mg/kg | 0.84       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | J               | mg/kg | 0.61       | J        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 94.1              |                 | mg/kg | 94.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 160               |                 | mg/kg | 160        |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD7       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                               | % Solids: 86.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.013      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD7       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                           | % Solids: 86.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 9090              |                 | mg/kg | 9090       |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 643               |                 | mg/kg | 643        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 19400             |                 | mg/kg | 19400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2160              |                 | mg/kg | 2160       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 606               |                 | mg/kg | 606        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 106               | J               | mg/kg | 106        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD7       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-121 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 14:45:00 |
| % Moisture:                 |                          | % Solids: 86.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 39.3              |                 | mg/kg | 39.3       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.56              |                 | mg/kg | 0.56       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.098             | J               | mg/kg | 0.098      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 17.0              |                 | mg/kg | 17.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.4               |                 | mg/kg | 7.4        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 9.1               |                 | mg/kg | 9.1        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.9               |                 | mg/kg | 7.9        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 213               |                 | mg/kg | 213        | D        | 2               | YES        | S4VEM            |
| Nickel       | Target       | 9.9               |                 | mg/kg | 9.9        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.8               | UJ              | mg/kg | 2.8        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.55              | U               | mg/kg | 0.55       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 24.4              |                 | mg/kg | 24.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 29.7              |                 | mg/kg | 29.7       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD8       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-126 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 15:40:00 |
| % Moisture:                 |                               | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.14              | UJ              | mg/kg | 0.14       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BD8

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location: NLR-DB-126

pH:

Sample Date: 11/18/2020

Sample Time: 15:40:00

% Moisture:

% Solids: 73.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 15700             |                 | mg/kg | 15700      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1220              |                 | mg/kg | 1220       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 18200             |                 | mg/kg | 18200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2560              |                 | mg/kg | 2560       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 1040              |                 | mg/kg | 1040       |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 642               | U               | mg/kg | 642        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BD8       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-126 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 15:40:00 |
| % Moisture:                 |                          | % Solids: 73.5          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.3               | U               | mg/kg | 1.3        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.93              |                 | mg/kg | 0.93       |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 54.4              |                 | mg/kg | 54.4       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.96              |                 | mg/kg | 0.96       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.23              | J               | mg/kg | 0.23       | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 20.1              |                 | mg/kg | 20.1       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.3               |                 | mg/kg | 3.3        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.2               |                 | mg/kg | 8.2        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 9.9               |                 | mg/kg | 9.9        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 59.6              |                 | mg/kg | 59.6       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 10.3              |                 | mg/kg | 10.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.2               | UJ              | mg/kg | 3.2        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.64              | U               | mg/kg | 0.64       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 17.8              |                 | mg/kg | 17.8       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 89.9              |                 | mg/kg | 89.9       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE2       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                               | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.12       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE2       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                           | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10900             |                 | mg/kg | 10900      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 789               |                 | mg/kg | 789        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15400             |                 | mg/kg | 15400      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2750              |                 | mg/kg | 2750       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 892               |                 | mg/kg | 892        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 586               | U               | mg/kg | 586        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE2       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 10:35:00 |
| % Moisture:                 |                          | % Solids: 82.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 3.8               |                 | mg/kg | 3.8        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.6              |                 | mg/kg | 46.6       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.55              |                 | mg/kg | 0.55       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.084             | J               | mg/kg | 0.084      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 24.6              |                 | mg/kg | 24.6       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 7.1               |                 | mg/kg | 7.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 13.1              |                 | mg/kg | 13.1       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.5               |                 | mg/kg | 7.5        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 223               |                 | mg/kg | 223        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.9              |                 | mg/kg | 12.9       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.7               | UJ              | mg/kg | 2.7        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.54              | U               | mg/kg | 0.54       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 36.4              |                 | mg/kg | 36.4       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 40.4              |                 | mg/kg | 40.4       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE4       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                               | % Solids: 86.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.11       | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE4       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                           | % Solids: 86.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10600             |                 | mg/kg | 10600      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 655               |                 | mg/kg | 655        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 11700             |                 | mg/kg | 11700      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1670              |                 | mg/kg | 1670       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 461               | J               | mg/kg | 461        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 199               | J               | mg/kg | 199        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE4       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-156 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:                 |                          | % Solids: 86.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 1.3               |                 | mg/kg | 1.3        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.0              |                 | mg/kg | 46.0       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.076             | J               | mg/kg | 0.076      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 16.2              |                 | mg/kg | 16.2       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 3.1               |                 | mg/kg | 3.1        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 6.1               |                 | mg/kg | 6.1        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 7.2               | J               | mg/kg | 7.2        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 38.3              |                 | mg/kg | 38.3       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | UJ              | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 19.1              |                 | mg/kg | 19.1       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 21.8              |                 | mg/kg | 21.8       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BE4D

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 86.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | U               | mg/kg | 0.11       | U        | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BE4D

Method: Metals by ICP-AES

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 86.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 10500             |                 | mg/kg | 10500      |          | 1               | YES        | NV               |
| Calcium      | Target       | 647               |                 | mg/kg | 647        |          | 1               | YES        | NV               |
| Iron         | Target       | 11600             |                 | mg/kg | 11600      |          | 1               | YES        | NV               |
| Magnesium    | Target       | 1650              |                 | mg/kg | 1650       |          | 1               | YES        | NV               |
| Potassium    | Target       | 419               | J               | mg/kg | 419        | J        | 1               | YES        | NV               |
| Sodium       | Target       | 191               | J               | mg/kg | 191        | J        | 1               | YES        | NV               |



# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0BC0

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE4D | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:            |                          | % Solids: 86.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | NV               |
| Arsenic      | Target       | 1.4               |                 | mg/kg | 1.4        |          | 1               | YES        | NV               |
| Barium       | Target       | 46.3              |                 | mg/kg | 46.3       |          | 1               | YES        | NV               |
| Beryllium    | Target       | 0.43              | J               | mg/kg | 0.43       | J        | 1               | YES        | NV               |
| Cadmium      | Target       | 0.070             | J               | mg/kg | 0.070      | J        | 1               | YES        | NV               |
| Chromium     | Target       | 16.0              |                 | mg/kg | 16.0       |          | 1               | YES        | NV               |
| Cobalt       | Target       | 3.0               |                 | mg/kg | 3.0        |          | 1               | YES        | NV               |
| Copper       | Target       | 6.0               |                 | mg/kg | 6.0        |          | 1               | YES        | NV               |
| Lead         | Target       | 7.3               |                 | mg/kg | 7.3        |          | 1               | YES        | NV               |
| Manganese    | Target       | 37.8              |                 | mg/kg | 37.8       |          | 1               | YES        | NV               |
| Nickel       | Target       | 6.6               |                 | mg/kg | 6.6        |          | 1               | YES        | NV               |
| Selenium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 1               | YES        | NV               |
| Silver       | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | NV               |
| Thallium     | Target       | 0.52              | U               | mg/kg | 0.52       | U        | 1               | YES        | NV               |
| Vanadium     | Target       | 18.6              |                 | mg/kg | 18.6       |          | 1               | YES        | NV               |
| Zinc         | Target       | 21.5              |                 | mg/kg | 21.5       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                        |                           |                |              |
|------------------------|---------------------------|----------------|--------------|
| Sample Number: MC0BE4L | Method: Metals by ICP-AES | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:   | Sample Time: |
| % Moisture:            |                           | % Solids: 86.2 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11200             |                 | mg/kg | 11200      |          | 5               | YES        | NV               |
| Calcium      | Target       | 709               | J               | mg/kg | 709        | J        | 5               | YES        | NV               |
| Iron         | Target       | 12800             |                 | mg/kg | 12800      |          | 5               | YES        | NV               |
| Magnesium    | Target       | 1780              | J               | mg/kg | 1780       | J        | 5               | YES        | NV               |
| Potassium    | Target       | 2790              | U               | mg/kg | 2790       | U        | 5               | YES        | NV               |
| Sodium       | Target       | 2790              | U               | mg/kg | 2790       | U        | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                        |                          |                |              |
|------------------------|--------------------------|----------------|--------------|
| Sample Number: MC0BE4L | Method: Metals by ICP-MS | Matrix: Soil   | MA Number:   |
| Sample Location:       | pH:                      | Sample Date:   | Sample Time: |
| % Moisture:            |                          | % Solids: 86.2 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 5.2               | U               | mg/kg | 5.2        | U        | 5               | YES        | NV               |
| Arsenic      | Target       | 1.3               | J               | mg/kg | 1.3        | J        | 5               | YES        | NV               |
| Barium       | Target       | 50.8              |                 | mg/kg | 50.8       |          | 5               | YES        | NV               |
| Beryllium    | Target       | 0.49              | J               | mg/kg | 0.49       | J        | 5               | YES        | NV               |
| Cadmium      | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 5               | YES        | NV               |
| Chromium     | Target       | 15.9              |                 | mg/kg | 15.9       |          | 5               | YES        | NV               |
| Cobalt       | Target       | 3.3               |                 | mg/kg | 3.3        |          | 5               | YES        | NV               |
| Copper       | Target       | 6.2               |                 | mg/kg | 6.2        |          | 5               | YES        | NV               |
| Lead         | Target       | 8.0               |                 | mg/kg | 8.0        | X*       | 5               | YES        | NV               |
| Manganese    | Target       | 37.5              |                 | mg/kg | 37.5       |          | 5               | YES        | NV               |
| Nickel       | Target       | 6.8               |                 | mg/kg | 6.8        |          | 5               | YES        | NV               |
| Selenium     | Target       | 13.1              | U               | mg/kg | 13.1       | U        | 5               | YES        | NV               |
| Silver       | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 5               | YES        | NV               |
| Thallium     | Target       | 2.6               | U               | mg/kg | 2.6        | U        | 5               | YES        | NV               |
| Vanadium     | Target       | 18.6              |                 | mg/kg | 18.6       |          | 5               | YES        | NV               |
| Zinc         | Target       | 22.2              |                 | mg/kg | 22.2       |          | 5               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

Sample Number: MC0BE4S

Method: Mercury by Cold Vapor

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/19/2020

Sample Time: 14:00:00

% Moisture:

% Solids: 86.2

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Spike        | 0.56              |                 | mg/kg | 0.56       |          | 1               | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW15007/MC0BC0

**Lab Name:** CHEMTEX

|                        |                          |                         |                       |
|------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BE4S | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                      | Sample Date: 11/19/2020 | Sample Time: 14:00:00 |
| % Moisture:            |                          | % Solids: 86.2          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Spike        | 9.7               |                 | mg/kg | 9.7        |          | 1               | YES        | NV               |
| Arsenic      | Spike        | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | NV               |
| Barium       | Spike        | 243               |                 | mg/kg | 243        |          | 1               | YES        | NV               |
| Beryllium    | Spike        | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | NV               |
| Cadmium      | Spike        | 5.2               |                 | mg/kg | 5.2        |          | 1               | YES        | NV               |
| Chromium     | Spike        | 37.5              |                 | mg/kg | 37.5       |          | 1               | YES        | NV               |
| Cobalt       | Spike        | 54.6              |                 | mg/kg | 54.6       |          | 1               | YES        | NV               |
| Copper       | Spike        | 32.6              |                 | mg/kg | 32.6       |          | 1               | YES        | NV               |
| Lead         | Spike        | 9.2               |                 | mg/kg | 9.2        |          | 1               | YES        | NV               |
| Manganese    | Spike        | 90.6              |                 | mg/kg | 90.6       |          | 1               | YES        | NV               |
| Nickel       | Spike        | 57.7              |                 | mg/kg | 57.7       |          | 1               | YES        | NV               |
| Selenium     | Spike        | 11.1              |                 | mg/kg | 11.1       |          | 1               | YES        | NV               |
| Silver       | Spike        | 5.3               |                 | mg/kg | 5.3        |          | 1               | YES        | NV               |
| Thallium     | Spike        | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | NV               |
| Vanadium     | Spike        | 71.0              |                 | mg/kg | 71.0       |          | 1               | YES        | NV               |
| Zinc         | Spike        | 77.3              |                 | mg/kg | 77.3       |          | 1               | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                               |                         |                       |
|-----------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH1       | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                           | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                               | % Solids: 78.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.12              | UJ              | mg/kg | 0.018      | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH1       | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                       | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                           | % Solids: 78.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 21300             |                 | mg/kg | 21300      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 1140              |                 | mg/kg | 1140       |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 12100             |                 | mg/kg | 12100      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 1260              |                 | mg/kg | 1260       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 580               | J               | mg/kg | 580        | J        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 133               | J               | mg/kg | 133        | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                             |                          |                         |                       |
|-----------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH1       | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SB-138 | pH:                      | Sample Date: 11/18/2020 | Sample Time: 13:35:00 |
| % Moisture:                 |                          | % Solids: 78.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.2               | U               | mg/kg | 1.2        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 2.9               |                 | mg/kg | 2.9        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 68.5              |                 | mg/kg | 68.5       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.42              | J               | mg/kg | 0.42       | J        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 26.0              |                 | mg/kg | 26.0       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 1.7               |                 | mg/kg | 1.7        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 8.7               |                 | mg/kg | 8.7        |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 11.4              |                 | mg/kg | 11.4       | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 17.2              |                 | mg/kg | 17.2       |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 5.0               |                 | mg/kg | 5.0        |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 3.1               | UJ              | mg/kg | 3.1        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.61              | U               | mg/kg | 0.61       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 46.0              |                 | mg/kg | 46.0       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 20.4              |                 | mg/kg | 20.4       |          | 1               | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                                |                               |                         |                       |
|--------------------------------|-------------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH7          | Method: Mercury by Cold Vapor | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                           | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                               | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | 0.11              | UJ              | mg/kg | 0.0093     | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH7          | Method: Metals by ICP-AES | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                       | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                           | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 11100             |                 | mg/kg | 11100      |          | 1               | YES        | S4VEM            |
| Calcium      | Target       | 829               |                 | mg/kg | 829        |          | 1               | YES        | S4VEM            |
| Iron         | Target       | 15200             |                 | mg/kg | 15200      |          | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 2360              |                 | mg/kg | 2360       |          | 1               | YES        | S4VEM            |
| Potassium    | Target       | 635               |                 | mg/kg | 635        |          | 1               | YES        | S4VEM            |
| Sodium       | Target       | 549               | U               | mg/kg | 549        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                                |                          |                         |                       |
|--------------------------------|--------------------------|-------------------------|-----------------------|
| Sample Number: MC0BH7          | Method: Metals by ICP-MS | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-DB-146-01 | pH:                      | Sample Date: 11/19/2020 | Sample Time: 08:00:00 |
| % Moisture:                    |                          | % Solids: 86.7          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 1.1               | U               | mg/kg | 1.1        | U        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 4.7               |                 | mg/kg | 4.7        |          | 1               | YES        | S4VEM            |
| Barium       | Target       | 46.8              |                 | mg/kg | 46.8       |          | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.62              |                 | mg/kg | 0.62       |          | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.083             | J               | mg/kg | 0.083      | J        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 25.7              |                 | mg/kg | 25.7       |          | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 4.6               |                 | mg/kg | 4.6        |          | 1               | YES        | S4VEM            |
| Copper       | Target       | 10.7              |                 | mg/kg | 10.7       |          | 1               | YES        | S4VEM            |
| Lead         | Target       | 8.5               |                 | mg/kg | 8.5        | X*       | 1               | YES        | S4VEM            |
| Manganese    | Target       | 119               |                 | mg/kg | 119        |          | 1               | YES        | S4VEM            |
| Nickel       | Target       | 12.3              |                 | mg/kg | 12.3       |          | 1               | YES        | S4VEM            |
| Selenium     | Target       | 2.6               | UJ              | mg/kg | 2.6        | U        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.53              | U               | mg/kg | 0.53       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 32.2              |                 | mg/kg | 32.2       |          | 1               | YES        | S4VEM            |
| Zinc         | Target       | 37.0              |                 | mg/kg | 37.0       |          | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: PBS715 | Method: Metals by ICP-AES | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aluminum     | Target       | 20.0              | U               | mg/kg | 20.0       | U        | 1               | YES        | S4VEM            |
| Calcium      | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Iron         | Target       | 1.6               | J               | mg/kg | 1.6        | J        | 1               | YES        | S4VEM            |
| Magnesium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Potassium    | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |
| Sodium       | Target       | 500               | U               | mg/kg | 500        | U        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                       |                          |               |              |
|-----------------------|--------------------------|---------------|--------------|
| Sample Number: PBS747 | Method: Metals by ICP-MS | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                      | Sample Date:  | Sample Time: |
| % Moisture:           |                          | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Antimony     | Target       | 0.21              | J               | mg/kg | 0.21       | J        | 1               | YES        | S4VEM            |
| Arsenic      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Barium       | Target       | 5.0               | U               | mg/kg | 5.0        | U        | 1               | YES        | S4VEM            |
| Beryllium    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Cadmium      | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Chromium     | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Cobalt       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Copper       | Target       | 1.0               | U               | mg/kg | 1.0        | U        | 1               | YES        | S4VEM            |
| Lead         | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Manganese    | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Nickel       | Target       | 0.097             | J               | mg/kg | 0.097      | J        | 1               | YES        | S4VEM            |
| Selenium     | Target       | -0.55             | J               | mg/kg | -0.55      | J        | 1               | YES        | S4VEM            |
| Silver       | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Thallium     | Target       | 0.50              | U               | mg/kg | 0.50       | U        | 1               | YES        | S4VEM            |
| Vanadium     | Target       | 2.5               | U               | mg/kg | 2.5        | U        | 1               | YES        | S4VEM            |
| Zinc         | Target       | 0.38              | J               | mg/kg | 0.38       | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

|                       |                               |               |              |
|-----------------------|-------------------------------|---------------|--------------|
| Sample Number: PBSL51 | Method: Mercury by Cold Vapor | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                           | Sample Date:  | Sample Time: |
| % Moisture:           |                               | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Mercury      | Target       | -0.021            | J               | mg/kg | -0.021     | J        | 1               | YES        | S4VEM            |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW15007/MC0BC0

Lab Name: CHEMTEX

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: 12/29/2020

SUBJECT: Region III Data QA Review

FROM: Warren Fortune  
Region III ESAT RPO (3LS20)

A handwritten signature in black ink that reads "Warren Fortune".

TO: JOSEPH VITELLO  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the NORWOOD LANDFILL site for RAS# 49167; SDG# C0B11 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc:

(b) (4)

TO: #0002 TDF: #1220025







ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** December 28, 2020

**To:** ESAT Region 3 Project Officer

**From:** (b) (4)  
Validator

(b) (4)  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Norwood Landfill  
49167 C0B11

### **Overview**

This data package consisted of one (1) trip blank analyzed for volatile analytes, twelve (12) soil samples including one (1) field duplicate sample analyzed for volatile, semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes and seven (7) soil samples analyzed for semivolatile, semivolatile PAH by SIM, pesticide and Aroclor analytes.

Analyses were performed by Chemtech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 8, 2020.

### **Summary**

Significant data quality outliers regarding dual column precision in pesticide fraction were identified that resulted in rejection of several analytes in this fraction. Less significant data quality outliers were identified resulting in estimation of sample results, including but not limited to, internal standard in volatile fraction, calibration standards and surrogates in pesticide fraction as detailed below.

**Major Problems**

The following analytes reported percent difference (%D) >200% in pesticide dual column analyses for samples listed. The significant %D between the two results may indicate interferences impacting the analyte. Reported results for these analytes in samples listed have been rejected and qualified "R".

| Fraction  | Affected Sample(s) | Affected Analyte(s)                         |
|-----------|--------------------|---|
| Pesticide | COB12              | Dieldrin, Endrin                            |
|           | COB14              | Endosulfan II                               |
|           | COB16              | trans-Chlordane, Dieldrin, 4,4'-DDT         |
|           | COB17              | Endrin                                      |
|           | COB18              | cis-Chlordane                               |
|           | COB47              | Heptachlor epoxide, Endosulfan II           |
|           | COB69              | Heptachlor epoxide, 4,4'-DDE, Endosulfan II |
|           | COB76              | 4,4'-DDE, 4,4'-DDT                          |

**Minor Problems**

The area counts for internal standard 1,4-Dichlorobenzene-<sub>d4</sub> were outside the lower control limit in volatile samples COB16, COB17 and COB18. These samples were reanalyzed with similar results for samples COB16 and COB18 and area counts for all internal standards outside the control limit in sample COB17. Results from the initial analysis of sample COB17 and reanalysis of samples COB16 and COB18 are reported. No positive results were reported for analytes associated with internal standard 1,4-Dichlorobenzene-<sub>d4</sub> in these samples. Quantitation limits for associated analytes in these samples have been qualified "UJ".

The following analytes failed Percent Difference (%D) criteria on one or both analytical columns in calibration standard listed below. Positive result or quantitation limit for these analytes in the sample associated with this standard is estimated and have been qualified "J" and "UJ", respectively.

| Fraction  | Standard ID | Affected Analytes      | Associated Samples |
|-----------|-------------|------------------------|--------------------|
| Pesticide | INDA327     | Methoxychlor, 4,4'-DDT | COB11              |

The following analytes exceeded the calibration range in the initial or diluted analysis of samples listed. Positive results for these analytes in the affected samples have been qualified "J".

| Fraction | Affected Sample | Affected Analytes  |
|----------|-----------------|--|
| PAH SIM  | COB12           | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene                                     |
|          | COB13           | Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene   |
|          | COB17, COB73    | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene |
|          | COB76           | Fluoranthene, Pyrene   |

Recoveries for surrogate Decachlorobiphenyl (DCB) were outside the lower control limit on one or both analytical columns in samples listed below. Positive results and quantitation limits in these samples have been qualified "J" and "UJ", respectively, unless qualified "R".

| Fraction  | Samples                                  |
|-----------|--|
| Pesticide | COBX9, COB12, COB13, COB71, COB75, COB76 |

#### Notes

Detected concentrations for target analytes less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J".

Pesticide and Aroclor results with %D >25% and 200% between the two analytical columns have been qualified "J".

Laboratory blanks were free of contamination in all fractions with the exception of 4-methyl-2-pentanone <CRQL in VBLK03, carbon disulfide <CRQL in VBLK08 and methylene chloride <CRQL in all volatile blanks except VHBLK02. 4-Methyl-2-pentanone and carbon disulfide were not detected in field samples. Positive results for methylene chloride <CRQL have been raised to the CRQL and qualified "U".

Sample COBF5 collected 11/12/20 is a trip blank associated with samples in this SDG. This trip blank was analyzed in SDG COB36. Trip blanks COBF8 (analyzed in this SDG) and COBF5 were free of contamination. No data were qualified based on trip blanks.

Laboratory Control Samples (LCS) analyzed in pesticide and Aroclor fractions reported acceptable results.

Sample COB71 and COB47 were not analyzed for PAH SIM fraction due the high concentrations of PAH analytes in semivolatile fraction of these samples. No data were qualified based on this finding.

Several analytes exceeded the calibration range in PAH sample COB17. A diluted analysis for this sample was not reported. Data were qualified accordingly as mentioned under "Minor Problems".

The continuing calibration verification (CCV) standard INDA324 associated with pesticide sample COB11 failed precision criteria for 4,4'-DDT. This sample was reanalyzed with a new CCV which again failed the criteria. Results from the reanalysis are reported and qualified accordingly as mentioned above.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of pesticide and Aroclor samples COB11 reported acceptable results. No data were qualified based on MS/MSD results.

DMCs were diluted out in the diluted analysis of several SIM samples. No data were qualified based on this finding.

The surrogate DCB was diluted out in pesticide sample COB69DL on one analytical column. No data were qualified based on this finding.

Several non-spiked analytes were detected in pesticide sample COB11 and the MS/MSD analyses of this sample. The results for these analytes were <CRQL and no comparison of these results was made.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for samples listed below. The samples were reanalyzed at dilution listed in order to quantitate these analytes within the calibration range and the analytes were reported from the dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

| Fraction     | Sample              | DF  | Affected Analytes  |
|--------------|---------------------|-----|--|
| Semivolatile | COB47, COB71        | 2X  | Pyrene, Benzo(b)fluoranthene   |
| PAH          | COB12               | 5X  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene                                     |
|              | COB13               | 5X  | Acenaphthene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene           |
|              | COB14               | 2X  | Fluoranthene, Pyrene   |
|              | COB16, COB37, COB76 | 5X  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB18               | 5X  | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB22               | 10X | Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB69               | 10X | Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene   |
|              | COB73               | 2X  | Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene |
|              | COB75               | 5X  | Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene   |
| Pesticide    | COB14               | 10X | Heptachlor, Heptachlor epoxide, cis-Chlordane, trans-Chlordane   |
|              | COB47, COB69        | 10X | cis-Chlordane, trans-Chlordane   |

Sample COBF7 is listed as a field duplicate sample on the chain of custody. The field duplicate pair to this sample was not identified. Comparison of results could not be made.

Tentatively Identified Compounds (TICs) are not reviewed by the data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations. Validation qualifiers are only applied by the validator to field samples. Qualifiers may be applied by EXES electronic validation to laboratory quality control sample.

### **Glossary of Organic Data Qualifier Codes**

|                       |   |
|-----------------------|---|
| Validation Qualifiers | In order of descending precedence. Only one of these qualifiers may apply to any result.  |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.             |
| UJ                    | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                                      |
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit  |
| J                     | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                    | The result is an estimated quantity, but the result may be biased high.   |
| J-                    | The result is an estimated quantity, but the result may be biased low.  |
| Additional Qualifiers | Additional qualifiers may be combined with other qualifiers.  |
| N                     | The analyte has been "tentatively identified" or "presumptively" as present.  |
| B                     | The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.   |
| C                     | The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers. |
| X                     | The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.                |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: ABLK75

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 100

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                  |               |              |
|-----------------------|------------------|---------------|--------------|
| Sample Number: ALCS75 | Method: Aroclors | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:              | Sample Date:  | Sample Time: |
| % Moisture:           |                  | % Solids: 100 |              |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 31                | J               | ug/kg | 31         | J        | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 33                | U               | ug/kg | 33         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0AX9

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-116

pH:

Sample Date: 11/16/2020

Sample Time: 11:15:00

% Moisture:

% Solids: 74.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0AX9        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-116 | pH:                | Sample Date: 11/16/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                    | % Solids: 74.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.44              | J               | ug/kg | 0.44       | J        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0AX9        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-116 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                       | % Solids: 74.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0AX9        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-116 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                              | % Solids: 74.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.4               | U               | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 33                |                 | ug/kg | 33         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 31                |                 | ug/kg | 31         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.4               |                 | ug/kg | 4.4        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0AX9        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-116 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 11:15:00 |
| % Moisture:                 |                           | % Solids: 74.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.9               | J               | ug/kg | 5.9        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.1               |                 | ug/kg | 7.1        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 13                | U               | ug/kg | 13         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.6               | U               | ug/kg | 6.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B11

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-148

pH:

Sample Date: 11/12/2020

Sample Time: 13:10:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B11        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                    | % Solids: 78.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.76              | J               | ug/kg | 0.76       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.88              | J               | ug/kg | 0.88       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | UJ              | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.49              | J               | ug/kg | 0.49       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.22              | J               | ug/kg | 0.22       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B11        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                       | % Solids: 78.9          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B11        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                              | % Solids: 78.9          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 0.99              | J               | ug/kg | 0.99       | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 16                |                 | ug/kg | 16         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 24                |                 | ug/kg | 24         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 9.0               |                 | ug/kg | 9.0        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 3.7               | J               | ug/kg | 3.7        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B11        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:                 |                           | % Solids: 78.9          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.3               |                 | ug/kg | 7.3        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.55              | J               | ug/kg | 0.55       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.4               | U               | ug/kg | 5.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B11MS

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/12/2020

Sample Time: 13:10:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 160               |                 | ug/kg | 160        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 160               |                 | ug/kg | 160        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                        |                    |                         |                       |
|------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B11MS | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:       | pH:                | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:            |                    | % Solids: 78.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.53              | J               | ug/kg | 0.53       | JP       | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 28                | J               | ug/kg | 28         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.35              | J               | ug/kg | 0.35       | JP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B11MSD

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location:

pH:

Sample Date: 11/12/2020

Sample Time: 13:10:00

% Moisture:

% Solids: 78.9

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Spike        | 160               |                 | ug/kg | 160        |          | 1.0             | YES        | NV               |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1260 | Spike        | 150               |                 | ug/kg | 150        |          | 1.0             | YES        | NV               |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                         |                    |                         |                       |
|-------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B11MSD | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location:        | pH:                | Sample Date: 11/12/2020 | Sample Time: 13:10:00 |
| % Moisture:             |                    | % Solids: 78.9          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | NV               |
| Heptachlor          | Spike        | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | NV               |
| Aldrin              | Spike        | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 0.49              | J               | ug/kg | 0.49       | JP       | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | NV               |
| Endrin              | Spike        | 27                |                 | ug/kg | 27         |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 0.61              | J               | ug/kg | 0.61       | JP       | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Spike        | 28                | J               | ug/kg | 28         |          | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.0               | J               | ug/kg | 1.0        | JP       | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 0.52              | J               | ug/kg | 0.52       | JP       | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B12

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-149

pH:

Sample Date: 11/16/2020

Sample Time: 08:15:00

% Moisture:

% Solids: 74.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 44                | U               | ug/kg | 44         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B12        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                    | % Solids: 74.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.3               | UJ              | ug/kg | 2.3        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.23              | R               | ug/kg | 0.23       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.0               | J               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.25              | R               | ug/kg | 0.25       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.97              | J               | ug/kg | 0.97       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 23                | UJ              | ug/kg | 23         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.4               | UJ              | ug/kg | 4.4        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 9.4               | J               | ug/kg | 9.4        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 6.3               | J               | ug/kg | 6.3        | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 230               | UJ              | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B12        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                       | % Solids: 74.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 90                | U               | ug/kg | 90         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 590               |                 | ug/kg | 590        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                   | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                   | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Pyrene                         | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate           | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine          | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene             | Target       | 590               |                 | ug/kg | 590        |          | 1.0             | YES        | S4VEM            |
| Chrysene                       | Target       | 930               |                 | ug/kg | 930        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate     | Target       | 90                | J               | ug/kg | 90         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate           | Target       | 440               | U               | ug/kg | 440        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene           | Target       | 1300              |                 | ug/kg | 1300       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene           | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                 | Target       | 820               |                 | ug/kg | 820        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene         | Target       | 530               |                 | ug/kg | 530        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene         | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene           | Target       | 570               |                 | ug/kg | 570        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol      | Target       | 230               | U               | ug/kg | 230        | U        | 1.0             | YES        | S4VEM            |
| Methacrylamide                 | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione           | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene                 | TIC          | 780               | JN              | ug/kg | 780        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene           | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| Total Alkanes                  | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Anthracene, 2-methyl-          | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-              | TIC          | 91                | JN              | ug/kg | 91         | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen   | TIC          | 90                | JN              | ug/kg | 90         | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone  | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one     | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B12        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                              | % Solids: 74.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 6.9               |                 | ug/kg | 6.9        |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 5.7               |                 | ug/kg | 5.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.3               |                 | ug/kg | 8.3        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.0               | U               | ug/kg | 9.0        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 42                |                 | ug/kg | 42         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 1200              | J               | ug/kg | 1200       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 830               | J               | ug/kg | 830        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 1000              | J               | ug/kg | 1000       | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 360               | J               | ug/kg | 360        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 680               | J               | ug/kg | 680        | ED       | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 560               | J               | ug/kg | 560        | ED       | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B12        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-149 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:15:00 |
| % Moisture:                 |                           | % Solids: 74.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 8.1               | J               | ug/kg | 8.1        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.9               |                 | ug/kg | 6.9        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.2               | U               | ug/kg | 6.2        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Bicyclo[3.1.0]hex-2-ene, 4-methyl- | TIC          | 9.4               | JN              | ug/kg | 9.4        | JN       | 1.0             | YES        | NV               |
| .beta.-Pinene                      | TIC          | 20                | JN              | ug/kg | 20         | JN       | 1.0             | YES        | NV               |
| Bicyclo[3.1.0]hexane, 4-methylene- | TIC          | 24                | JN              | ug/kg | 24         | JN       | 1.0             | YES        | NV               |
| (+)-4-Carene                       | TIC          | 57                | JN              | ug/kg | 57         | JN       | 1.0             | YES        | NV               |
| Eucalyptol                         | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| .alpha.-Pinene                     | TIC          | 5.7               | JN              | ug/kg | 5.7        | JN       | 1.0             | YES        | NV               |
| o-Cymene                           | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| 3-Octanone                         | TIC          | 4.7               | JN              | ug/kg | 4.7        | JN       | 1.0             | YES        | NV               |
| .gamma.-Terpinene                  | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B11

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B13        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:              | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                  | % Solids: 69.1          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B13        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:                | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                    | % Solids: 69.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.89              | J               | ug/kg | 0.89       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.75              | J               | ug/kg | 0.75       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 25                | UJ              | ug/kg | 25         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 250               | UJ              | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B13        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                       | % Solids: 69.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 97                | U               | ug/kg | 97         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 84                | J               | ug/kg | 84         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 62                | J               | ug/kg | 62         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 680               |                 | ug/kg | 680        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 1000              |                 | ug/kg | 1000       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 920               |                 | ug/kg | 920        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 510               |                 | ug/kg | 510        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 75                | J               | ug/kg | 75         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 610               |                 | ug/kg | 610        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 240               | J               | ug/kg | 240        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4H-Cyclopenta[def]phenanthrene      | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1H-Cyclopropa[l]phenanthrene, 1a,9b | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B13        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                              | % Solids: 69.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 77                |                 | ug/kg | 77         | D        | 5.0             | YES        | S4VEM            |
| Fluorene               | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.7               | U               | ug/kg | 9.7        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 540               | J               | ug/kg | 540        | ED       | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 720               | J               | ug/kg | 720        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 710               | J               | ug/kg | 710        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 380               |                 | ug/kg | 380        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 390               | J               | ug/kg | 390        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 470               | J               | ug/kg | 470        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 370               |                 | ug/kg | 370        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 67                |                 | ug/kg | 67         | D        | 5.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B13        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-150 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 08:50:00 |
| % Moisture:                 |                           | % Solids: 69.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.6               | U               | ug/kg | 3.9        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.6               | U               | ug/kg | 7.6        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B14

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-151

pH:

Sample Date: 11/16/2020

Sample Time: 10:25:00

% Moisture:

% Solids: 76.4

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B14        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-151 | pH:                | Sample Date: 11/16/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                    | % Solids: 76.4          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 0.93              | J               | ug/kg | 0.93       | JP       | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 200               |                 | ug/kg | 200        | D        | 10.0            | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 59                | J               | ug/kg | 59         | DP       | 10.0            | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.8               | J               | ug/kg | 2.8        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 1.4               | R               | ug/kg | 1.4        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.87              | J               | ug/kg | 0.87       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 2.1               | J               | ug/kg | 2.1        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 170               | J               | ug/kg | 170        | DP       | 10.0            | YES        | S4VEM            |
| trans-Chlordane     | Target       | 330               |                 | ug/kg | 330        | D        | 10.0            | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B14        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-151 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                       | % Solids: 76.4          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 88                | U               | ug/kg | 88         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 83                | J               | ug/kg | 83         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 96                | J               | ug/kg | 96         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 79                | J               | ug/kg | 79         | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 56                | J               | ug/kg | 56         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 54                | J               | ug/kg | 54         | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 48                | J               | ug/kg | 48         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B14        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-151 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                              | % Solids: 76.4          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.3               | U               | ug/kg | 4.3        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 2.0               | J               | ug/kg | 2.0        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.8               | U               | ug/kg | 8.8        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 44                |                 | ug/kg | 44         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 79                |                 | ug/kg | 79         | D        | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 71                |                 | ug/kg | 71         | D        | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 51                |                 | ug/kg | 51         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 60                |                 | ug/kg | 60         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 49                |                 | ug/kg | 49         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 10                |                 | ug/kg | 10         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 32                |                 | ug/kg | 32         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B14        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-151 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 10:25:00 |
| % Moisture:                 |                           | % Solids: 76.4          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 6.4               |                 | ug/kg | 6.4        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.9               | U               | ug/kg | 5.9        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B15

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-152

pH:

Sample Date: 11/16/2020

Sample Time: 11:55:00

% Moisture:

% Solids: 59.6

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 55                | U               | ug/kg | 55         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B15        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                    | % Solids: 59.6          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 28                | U               | ug/kg | 28         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.8               | U               | ug/kg | 2.8        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B15        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                       | % Solids: 59.6          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 110               | U               | ug/kg | 110        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 220               | J               | ug/kg | 220        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 550               | U               | ug/kg | 550        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 280               | U               | ug/kg | 280        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 320               | N               | ug/kg | 320        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B15        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                              | % Solids: 59.6          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 8.1               |                 | ug/kg | 8.1        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 9.7               |                 | ug/kg | 9.7        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 5.2               | J               | ug/kg | 5.2        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 5.4               | J               | ug/kg | 5.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 4.5               | J               | ug/kg | 4.5        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.7               | J               | ug/kg | 2.7        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 5.5               | U               | ug/kg | 5.5        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B15        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-152 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 11:55:00 |
| % Moisture:                 |                           | % Solids: 59.6          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 9.4               | U               | ug/kg | 3.6        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 19                | U               | ug/kg | 19         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 9.4               | U               | ug/kg | 9.4        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B16

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-153

pH:

Sample Date: 11/16/2020

Sample Time: 12:30:00

% Moisture:

% Solids: 71.8

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B16        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                    | % Solids: 71.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 0.63              | J               | ug/kg | 0.63       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 0.53              | R               | ug/kg | 0.53       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.70              | J               | ug/kg | 0.70       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.35              | J               | ug/kg | 0.35       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.39              | R               | ug/kg | 0.39       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 4.5               | J               | ug/kg | 4.5        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.3               | R               | ug/kg | 2.3        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B16        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                       | % Solids: 71.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 89                | J               | ug/kg | 89         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 250               | J               | ug/kg | 250        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B16        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                              | % Solids: 71.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 75                |                 | ug/kg | 75         | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 21                |                 | ug/kg | 21         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 180               |                 | ug/kg | 180        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 280               |                 | ug/kg | 280        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 86                |                 | ug/kg | 86         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B16        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-153 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 12:30:00 |
| % Moisture:                 |                           | % Solids: 71.8          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.3               | U               | ug/kg | 3.7        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.3               | U               | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.3               | UJ              | ug/kg | 7.3        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B17

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-154

pH:

Sample Date: 11/16/2020

Sample Time: 09:50:00

% Moisture:

% Solids: 66.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 50                | U               | ug/kg | 50         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B17        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                    | % Solids: 66.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.60              | J               | ug/kg | 0.60       | JP       | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.6               | U               | ug/kg | 2.6        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.5               | J               | ug/kg | 1.5        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.93              | R               | ug/kg | 0.93       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 1.6               | J               | ug/kg | 1.6        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.2               | J               | ug/kg | 1.2        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 26                | U               | ug/kg | 26         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 20                | J               | ug/kg | 20         | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 15                | J               | ug/kg | 15         | P        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B17        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                       | % Solids: 66.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 100               | U               | ug/kg | 100        | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1600              |                 | ug/kg | 1600       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 240               | J               | ug/kg | 240        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 3900              |                 | ug/kg | 3900       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 3700              |                 | ug/kg | 3700       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 2400              |                 | ug/kg | 2400       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 2800              |                 | ug/kg | 2800       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 480               |                 | ug/kg | 480        |          | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 500               | U               | ug/kg | 500        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 3600              |                 | ug/kg | 3600       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 1100              |                 | ug/kg | 1100       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 2300              |                 | ug/kg | 2300       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 460               |                 | ug/kg | 460        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 260               | U               | ug/kg | 260        | U        | 1.0             | YES        | S4VEM            |
| unknown-01                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| Benzo[a]pyrene                     | TIC          | 1900              | JN              | ug/kg | 1900       | JN       | 1.0             | YES        | NV               |
| Methacrylamide                     | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 520               | JN              | ug/kg | 520        | JN       | 1.0             | YES        | NV               |
| Benzo[c]cinnoline                  | TIC          | 450               | JN              | ug/kg | 450        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene    | TIC          | 190               | JN              | ug/kg | 190        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-methyl-              | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| di-p-Tolylacetylene                | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| 1-Pyrenecarboxaldehyde             | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Pyrene, 2-methyl-                  | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Chrysene, 5-methyl-                | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen       | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Benzene, [4-(3-ethynylphenyl)-1,3- | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Naphtho[2,3-b]norbornadiene        | TIC          | 360               | JN              | ug/kg | 360        | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B17        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                              | % Solids: 66.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 8.6               |                 | ug/kg | 8.6        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 78                |                 | ug/kg | 78         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 71                |                 | ug/kg | 71         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1700              | J               | ug/kg | 1700       | E        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 310               | J               | ug/kg | 310        | E        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4400              | J               | ug/kg | 4400       | E        | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3500              | J               | ug/kg | 3500       | E        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 2400              | J               | ug/kg | 2400       | E        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3000              | J               | ug/kg | 3000       | E        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 2600              | J               | ug/kg | 2600       | E        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 940               | J               | ug/kg | 940        | E        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1800              | J               | ug/kg | 1800       | E        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 1300              | J               | ug/kg | 1300       | E        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 400               | J               | ug/kg | 400        | E        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 1300              | J               | ug/kg | 1300       | E        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B17        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-154 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 09:50:00 |
| % Moisture:                 |                           | % Solids: 66.3          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.5               | U               | ug/kg | 7.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B18

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-155

pH:

Sample Date: 11/16/2020

Sample Time: 09:20:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B18        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                    | % Solids: 71.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 0.94              | J               | ug/kg | 0.94       | J        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 5.2               |                 | ug/kg | 5.2        |          | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.37              | J               | ug/kg | 0.37       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.1               | J               | ug/kg | 4.1        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.6               | R               | ug/kg | 2.6        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | J               | ug/kg | 2.2        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B18        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                       | % Solids: 71.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 360               | J               | ug/kg | 360        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 250               |                 | ug/kg | 250        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 69                | J               | ug/kg | 69         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 92                | J               | ug/kg | 92         | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B18        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                              | % Solids: 71.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 9.9               |                 | ug/kg | 9.9        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 5.7               | J               | ug/kg | 5.7        | J        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 28                |                 | ug/kg | 28         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 270               |                 | ug/kg | 270        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 74                |                 | ug/kg | 74         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 88                |                 | ug/kg | 88         | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 30                |                 | ug/kg | 30         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 94                |                 | ug/kg | 94         | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B18        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-155 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                           | % Solids: 71.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.5               | U               | ug/kg | 3.2        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 15                | U               | ug/kg | 15         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.5               | U               | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.5               | UJ              | ug/kg | 7.5        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 3-Cyclohepten-1-one | TIC          | 5.3               | JN              | ug/kg | 5.3        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B11

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B22        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:              | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                  | % Solids: 72.0          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 46                | U               | ug/kg | 46         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B22        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                    | % Solids: 72.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 0.55              | J               | ug/kg | 0.55       | JP       | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B22        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                       | % Solids: 72.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 93                | U               | ug/kg | 93         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 580               |                 | ug/kg | 580        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 540               |                 | ug/kg | 540        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 290               |                 | ug/kg | 290        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 280               |                 | ug/kg | 280        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 310               |                 | ug/kg | 310        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Anthracene, 1-methyl-      | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| 1H-Indene, 2-phenyl-       | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B22        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                              | % Solids: 72.0          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.3               | J               | ug/kg | 4.3        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.7               |                 | ug/kg | 4.7        |          | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 8.8               |                 | ug/kg | 8.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 22                |                 | ug/kg | 22         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 23                |                 | ug/kg | 23         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.3               | U               | ug/kg | 9.3        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 240               |                 | ug/kg | 240        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 55                |                 | ug/kg | 55         | D        | 10.0            | YES        | S4VEM            |
| Fluoranthene           | Target       | 380               |                 | ug/kg | 380        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 380               |                 | ug/kg | 380        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 220               |                 | ug/kg | 220        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 230               |                 | ug/kg | 230        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 86                |                 | ug/kg | 86         | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 170               |                 | ug/kg | 170        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 92                |                 | ug/kg | 92         | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 45                |                 | ug/kg | 45         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 95                |                 | ug/kg | 95         | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0B22        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-159 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 14:25:00 |
| % Moisture:                 |                           | % Solids: 72.0          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 5.0               | J               | ug/kg | 5.0        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.0               | U               | ug/kg | 6.8        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 14                | U               | ug/kg | 14         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 7.0               | U               | ug/kg | 7.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B37

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-106

pH:

Sample Date: 11/12/2020

Sample Time: 08:30:00

% Moisture:

% Solids: 69.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B37        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-106 | pH:                | Sample Date: 11/12/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                    | % Solids: 69.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.71              | J               | ug/kg | 0.71       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 25                | U               | ug/kg | 25         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.89              | J               | ug/kg | 0.89       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.70              | J               | ug/kg | 0.70       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B37        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-106 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                       | % Solids: 69.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 230               | J               | ug/kg | 230        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 370               | J               | ug/kg | 370        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 170               | J               | ug/kg | 170        | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 200               | J               | ug/kg | 200        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 190               | J               | ug/kg | 190        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B37        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-106 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 08:30:00 |
| % Moisture:                 |                              | % Solids: 69.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.2               | J               | ug/kg | 1.2        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 5.1               |                 | ug/kg | 5.1        |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 5.4               |                 | ug/kg | 5.4        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 130               |                 | ug/kg | 130        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 25                |                 | ug/kg | 25         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 290               |                 | ug/kg | 290        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 160               |                 | ug/kg | 160        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 190               |                 | ug/kg | 190        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 220               |                 | ug/kg | 220        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 81                |                 | ug/kg | 81         | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 170               |                 | ug/kg | 170        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 36                |                 | ug/kg | 36         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B47

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-116

pH:

Sample Date: 11/16/2020

Sample Time: 11:20:00

% Moisture:

% Solids: 71.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B47        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-116 | pH:                | Sample Date: 11/16/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                    | % Solids: 71.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.7               | J               | ug/kg | 1.7        | JP       | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 26                |                 | ug/kg | 26         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 9.5               | R               | ug/kg | 9.5        | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 2.7               | J               | ug/kg | 2.7        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.3               | R               | ug/kg | 4.3        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.90              | J               | ug/kg | 0.90       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.9               | J               | ug/kg | 3.9        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.6               | U               | ug/kg | 4.6        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 250               | J               | ug/kg | 250        | DP       | 10.0            | YES        | S4VEM            |
| trans-Chlordane     | Target       | 230               | J               | ug/kg | 230        | DP       | 10.0            | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B47        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-116 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 11:20:00 |
| % Moisture:                 |                       | % Solids: 71.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 94                | U               | ug/kg | 94         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 95                | J               | ug/kg | 95         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 94                | J               | ug/kg | 94         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 64                | J               | ug/kg | 64         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 350               |                 | ug/kg | 350        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 210               | J               | ug/kg | 210        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 5200              |                 | ug/kg | 5200       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 4200              |                 | ug/kg | 4200       | D        | 2.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 52                | J               | ug/kg | 52         | J        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 2800              |                 | ug/kg | 2800       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 3200              |                 | ug/kg | 3200       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 460               | U               | ug/kg | 460        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 3500              |                 | ug/kg | 3500       | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 2900              |                 | ug/kg | 2900       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 520               |                 | ug/kg | 520        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Azapyrene                        | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Perylene                           | TIC          | 2600              | JN              | ug/kg | 2600       | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 590               | JN              | ug/kg | 590        | JN       | 1.0             | YES        | NV               |
| Dinaphtho[1,2-b:1,2-d]furan        | TIC          | 300               | JN              | ug/kg | 300        | JN       | 1.0             | YES        | NV               |
| Naphtho[2,1-b]thiophene            | TIC          | 97                | JN              | ug/kg | 97         | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene               | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 180               | JN              | ug/kg | 180        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,3-d]thiophene    | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-             | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| 9,10-Dimethylanthracene            | TIC          | 220               | JN              | ug/kg | 220        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 3-methyl-            | TIC          | 99                | JN              | ug/kg | 99         | JN       | 1.0             | YES        | NV               |
| Triphenylene, 2-methyl-            | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-            | TIC          | 360               | JN              | ug/kg | 360        | JN       | 1.0             | YES        | NV               |
| Benzo[a]anthracene, 7-methyl-      | TIC          | 98                | JN              | ug/kg | 98         | JN       | 1.0             | YES        | NV               |
| Pyrene, 2-methyl-                  | TIC          | 95                | JN              | ug/kg | 95         | JN       | 1.0             | YES        | NV               |
| 1H-Indene, 2-phenyl-               | TIC          | 270               | JN              | ug/kg | 270        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro- | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Anthracene, 2-ethyl-               | TIC          | 200               | JN              | ug/kg | 200        | JN       | 1.0             | YES        | NV               |
| 4H-3,1-Benzoxazin-2-imine, 1,4,4a, | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Benzo[e]pyrene                     | TIC          | 530               | JN              | ug/kg | 530        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 420               | JN              | ug/kg | 420        | JN       | 1.0             | YES        | NV               |
| unknown-05                         | TIC          | 1000              | J               | ug/kg | 1000       | J        | 1.0             | YES        | NV               |
| unknown-02                         | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | NV               |
| unknown-04                         | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B69

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-138

pH:

Sample Date: 11/12/2020

Sample Time: 09:20:00

% Moisture:

% Solids: 77.5

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 43                | U               | ug/kg | 43         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B69        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-138 | pH:                | Sample Date: 11/12/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                    | % Solids: 77.5          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 21                | R               | ug/kg | 21         | P        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.3               | R               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 2.0               | R               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 0.74              | J               | ug/kg | 0.74       | JP       | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 3.4               | J               | ug/kg | 3.4        | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 190               | J               | ug/kg | 190        | DP       | 10.0            | YES        | S4VEM            |
| trans-Chlordane     | Target       | 190               | J               | ug/kg | 190        | DP       | 10.0            | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B69        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-138 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                       | % Solids: 77.5          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 86                | U               | ug/kg | 86         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | J               | ug/kg | 420        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 380               |                 | ug/kg | 380        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               |                 | ug/kg | 220        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 430               | U               | ug/kg | 430        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 340               |                 | ug/kg | 340        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 230               |                 | ug/kg | 230        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 160               | J               | ug/kg | 160        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Methacrylamide             | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B69        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-138 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 09:20:00 |
| % Moisture:                 |                              | % Solids: 77.5          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 2.1               | J               | ug/kg | 2.1        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.9               | J               | ug/kg | 1.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | J               | ug/kg | 4.2        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.6               |                 | ug/kg | 4.6        |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.6               | U               | ug/kg | 8.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 120               |                 | ug/kg | 120        | D        | 10.0            | YES        | S4VEM            |
| Anthracene             | Target       | 20                |                 | ug/kg | 20         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 340               |                 | ug/kg | 340        | D        | 10.0            | YES        | S4VEM            |
| Pyrene                 | Target       | 340               |                 | ug/kg | 340        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 190               |                 | ug/kg | 190        | D        | 10.0            | YES        | S4VEM            |
| Chrysene               | Target       | 250               |                 | ug/kg | 250        | D        | 10.0            | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 310               |                 | ug/kg | 310        | D        | 10.0            | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 120               |                 | ug/kg | 120        | D        | 10.0            | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 220               |                 | ug/kg | 220        | D        | 10.0            | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 150               |                 | ug/kg | 150        | D        | 10.0            | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 47                |                 | ug/kg | 47         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 160               |                 | ug/kg | 160        | D        | 10.0            | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B71

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-140

pH:

Sample Date: 11/12/2020

Sample Time: 10:10:00

% Moisture:

% Solids: 69.0

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B71        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-140 | pH:                | Sample Date: 11/12/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                    | % Solids: 69.0          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 0.96              | J               | ug/kg | 0.96       | JP       | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 25                | UJ              | ug/kg | 25         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.8               | UJ              | ug/kg | 4.8        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.5               | UJ              | ug/kg | 2.5        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 250               | UJ              | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B71        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-140 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 10:10:00 |
| % Moisture:                 |                       | % Solids: 69.0          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 97                | U               | ug/kg | 97         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 86                | J               | ug/kg | 86         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 99                | J               | ug/kg | 99         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 88                | J               | ug/kg | 88         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 2600              |                 | ug/kg | 2600       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 430               |                 | ug/kg | 430        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 300               | J               | ug/kg | 300        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                        | Target       | 5700              |                 | ug/kg | 5700       |          | 1.0             | YES        | S4VEM            |
| Pyrene                              | Target       | 5600              |                 | ug/kg | 5600       | D        | 2.0             | YES        | S4VEM            |
| Butylbenzylphthalate                | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine               | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                  | Target       | 3100              |                 | ug/kg | 3100       |          | 1.0             | YES        | S4VEM            |
| Chrysene                            | Target       | 3600              |                 | ug/kg | 3600       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate          | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate                | Target       | 480               | U               | ug/kg | 480        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene                | Target       | 4500              |                 | ug/kg | 4500       | D        | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene                | Target       | 1400              |                 | ug/kg | 1400       |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                      | Target       | 3000              |                 | ug/kg | 3000       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene              | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene              | Target       | 540               |                 | ug/kg | 540        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene                | Target       | 1700              |                 | ug/kg | 1700       |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol           | Target       | 250               | U               | ug/kg | 250        | U        | 1.0             | YES        | S4VEM            |
| Benzo[e]pyrene                      | TIC          | 2300              | JN              | ug/kg | 2300       | JN       | 1.0             | YES        | NV               |
| 4-Azaperyrene                       | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene      | TIC          | 690               | JN              | ug/kg | 690        | JN       | 1.0             | YES        | NV               |
| Benzo[j]fluoranthene                | TIC          | 490               | JN              | ug/kg | 490        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene                | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,1-d]thiophene     | TIC          | 210               | JN              | ug/kg | 210        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one          | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 9H-Fluoren-9-one                    | TIC          | 100               | JN              | ug/kg | 100        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-               | TIC          | 450               | JN              | ug/kg | 450        | JN       | 1.0             | YES        | NV               |
| 9,10-Dimethylanthracene             | TIC          | 280               | JN              | ug/kg | 280        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-             | TIC          | 320               | JN              | ug/kg | 320        | JN       | 1.0             | YES        | NV               |
| 1H-Cyclopropa[1]phenanthrene, 1a,9b | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                   | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Benz[a]anthracene, 7-methyl-        | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Pyrene, 2-methyl-                   | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 5,16[1,2]:8,13[1,2]-Dibenzen        | TIC          | 360               | JN              | ug/kg | 360        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone       | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| (1-Cyclopentenyl)ferrocene          | TIC          | 990               | JN              | ug/kg | 990        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(cd)pyrene, 3,4-dihydro-  | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-             | TIC          | 99                | JN              | ug/kg | 99         | JN       | 1.0             | YES        | NV               |
| 4H-3,1-Benzoxazin-2-imine, 1,4,4a,  | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| Total Alkanes                       | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| Dibenzothiophene                    | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione                | TIC          | 630               | JN              | ug/kg | 630        | JN       | 1.0             | YES        | NV               |
| 7H-Benz[de]anthracen-7-one          | TIC          | 150               | JN              | ug/kg | 150        | JN       | 1.0             | YES        | NV               |
| Methacrylamide                      | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| unknown-01                          | TIC          | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | NV               |
| unknown-03                          | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| unknown-02                          | TIC          | 110               | J               | ug/kg | 110        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

**Project Name:** NORWOOD LANDFILL Project

**GroupID:** 49167/EPW14030/C0B11

**Lab Name:** Chemtech Consulting Group

|                             |                  |                         |                       |
|-----------------------------|------------------|-------------------------|-----------------------|
| Sample Number: C0B73        | Method: Aroclors | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:              | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                  | % Solids: 69.8          |                       |

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B73        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:                | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                    | % Solids: 69.8          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | U               | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.1               | J               | ug/kg | 1.1        | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.79              | J               | ug/kg | 0.79       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | U               | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 6.7               | J               | ug/kg | 6.7        | P        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.0               | J               | ug/kg | 2.0        | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B73        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                       | % Solids: 69.8          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 93                | J               | ug/kg | 93         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 72                | J               | ug/kg | 72         | J        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 87                | J               | ug/kg | 87         | J        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 1900              |                 | ug/kg | 1900       |          | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 330               |                 | ug/kg | 330        |          | 1.0             | YES        | S4VEM            |
| Carbazole                   | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name                       | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Fluoranthene                       | Target       | 3900              |                 | ug/kg | 3900       |          | 1.0             | YES        | S4VEM            |
| Pyrene                             | Target       | 3500              |                 | ug/kg | 3500       |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene                 | Target       | 2000              |                 | ug/kg | 2000       |          | 1.0             | YES        | S4VEM            |
| Chrysene                           | Target       | 2200              |                 | ug/kg | 2200       |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate         | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene               | Target       | 2600              |                 | ug/kg | 2600       |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene               | Target       | 840               |                 | ug/kg | 840        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene                     | Target       | 1800              |                 | ug/kg | 1800       |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene             | Target       | 980               |                 | ug/kg | 980        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene             | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene               | Target       | 940               |                 | ug/kg | 940        |          | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| unknown-02                         | TIC          | 100               | J               | ug/kg | 100        | J        | 1.0             | YES        | NV               |
| Total Alkanes                      | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |
| unknown-01                         | TIC          | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | NV               |
| Methacrylamide                     | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 9,10-Anthracenedione               | TIC          | 390               | JN              | ug/kg | 390        | JN       | 1.0             | YES        | NV               |
| Benzo[e]pyrene                     | TIC          | 1400              | JN              | ug/kg | 1400       | JN       | 1.0             | YES        | NV               |
| 4H-Cyclopenta[def]phenanthrene     | TIC          | 560               | JN              | ug/kg | 560        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluorene               | TIC          | 110               | JN              | ug/kg | 110        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[b]fluorene               | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Benzo[b]naphtho[2,3-d]thiophene    | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| 11H-Benzo[a]fluoren-11-one         | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Anthracene, 1-methyl-              | TIC          | 170               | JN              | ug/kg | 170        | JN       | 1.0             | YES        | NV               |
| Naphthalene, 2-phenyl-             | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| Anthracene, 9-methyl-              | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 1-methyl-            | TIC          | 450               | JN              | ug/kg | 450        | JN       | 1.0             | YES        | NV               |
| Pyrene, 1-methyl-                  | TIC          | 96                | JN              | ug/kg | 96         | JN       | 1.0             | YES        | NV               |
| Benz(a)anthracene-7,12-dione       | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2-methyl-            | TIC          | 310               | JN              | ug/kg | 310        | JN       | 1.0             | YES        | NV               |
| 1-Pyrenecarboxaldehyde             | TIC          | 140               | JN              | ug/kg | 140        | JN       | 1.0             | YES        | NV               |
| Phenanthrene, 2,5-dimethyl-        | TIC          | 240               | JN              | ug/kg | 240        | JN       | 1.0             | YES        | NV               |
| Cyclopenta(def)phenanthrenone      | TIC          | 250               | JN              | ug/kg | 250        | JN       | 1.0             | YES        | NV               |
| 4H-Dibenz[a,k]anthracene, 5,6-dih  | TIC          | 160               | JN              | ug/kg | 160        | JN       | 1.0             | YES        | NV               |
| (1-Cyclopentenyl)ferrocene         | TIC          | 390               | JN              | ug/kg | 390        | JN       | 1.0             | YES        | NV               |
| Fluoranthene, 2-methyl-            | TIC          | 130               | JN              | ug/kg | 130        | JN       | 1.0             | YES        | NV               |
| Benzene, [4-(3-ethynylphenyl)-1,3- | TIC          | 120               | JN              | ug/kg | 120        | JN       | 1.0             | YES        | NV               |
| 2,6-Dichloro-4-(1,1-dimethylethyl) | TIC          | 99                | JN              | ug/kg | 99         | JN       | 1.0             | YES        | NV               |
| unknown-03                         | TIC          | 450               | J               | ug/kg | 450        | J        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B73        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-142 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 11:00:00 |
| % Moisture:                 |                              | % Solids: 69.8          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.0               | J               | ug/kg | 4.0        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 3.9               | J               | ug/kg | 3.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 7.8               |                 | ug/kg | 7.8        |          | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 73                |                 | ug/kg | 73         | D        | 2.0             | YES        | S4VEM            |
| Fluorene               | Target       | 87                |                 | ug/kg | 87         | D        | 2.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1800              | J               | ug/kg | 1800       | ED       | 2.0             | YES        | S4VEM            |
| Anthracene             | Target       | 310               | J               | ug/kg | 310        | ED       | 2.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 3600              | J               | ug/kg | 3600       | ED       | 2.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 3300              | J               | ug/kg | 3300       | ED       | 2.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 1800              | J               | ug/kg | 1800       | ED       | 2.0             | YES        | S4VEM            |
| Chrysene               | Target       | 2000              | J               | ug/kg | 2000       | ED       | 2.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 2100              | J               | ug/kg | 2100       | ED       | 2.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 810               | J               | ug/kg | 810        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 1500              | J               | ug/kg | 1500       | ED       | 2.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 920               | J               | ug/kg | 920        | ED       | 2.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 290               | J               | ug/kg | 290        | ED       | 2.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 910               | J               | ug/kg | 910        | ED       | 2.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B75

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-144

pH:

Sample Date: 11/12/2020

Sample Time: 12:15:00

% Moisture:

% Solids: 70.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 47                | U               | ug/kg | 47         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B75        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-144 | pH:                | Sample Date: 11/12/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                    | % Solids: 70.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.40              | J               | ug/kg | 0.40       | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B75        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-144 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                       | % Solids: 70.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 95                | U               | ug/kg | 95         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 71                | J               | ug/kg | 71         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 73                | J               | ug/kg | 73         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 50                | J               | ug/kg | 50         | J        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 140               | J               | ug/kg | 140        | J        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 77                | J               | ug/kg | 77         | J        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 97                | J               | ug/kg | 97         | J        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 76                | J               | ug/kg | 76         | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B75        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-144 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 12:15:00 |
| % Moisture:                 |                              | % Solids: 70.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.7               | U               | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.5               | U               | ug/kg | 9.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 53                |                 | ug/kg | 53         |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 6.4               |                 | ug/kg | 6.4        |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 120               |                 | ug/kg | 120        | D        | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 73                |                 | ug/kg | 73         |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 91                |                 | ug/kg | 91         | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 100               |                 | ug/kg | 100        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 46                |                 | ug/kg | 46         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 71                |                 | ug/kg | 71         | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 57                |                 | ug/kg | 57         |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 18                |                 | ug/kg | 18         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 59                |                 | ug/kg | 59         |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0B76

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-CS-145

pH:

Sample Date: 11/12/2020

Sample Time: 11:35:00

% Moisture:

% Solids: 69.3

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 48                | U               | ug/kg | 48         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0B76        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-145 | pH:                | Sample Date: 11/12/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                    | % Solids: 69.3          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 3.4               | J               | ug/kg | 3.4        |          | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.4               | UJ              | ug/kg | 2.4        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.7               | J               | ug/kg | 4.7        | P        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 0.55              | R               | ug/kg | 0.55       | JP       | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 0.70              | J               | ug/kg | 0.70       | J        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.54              | R               | ug/kg | 0.54       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 24                | UJ              | ug/kg | 24         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.7               | UJ              | ug/kg | 4.7        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.87              | J               | ug/kg | 0.87       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.67              | J               | ug/kg | 0.67       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 240               | UJ              | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0B76        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-145 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                       | % Solids: 69.3          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 96                | U               | ug/kg | 96         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 180               | J               | ug/kg | 180        | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 320               | U               | ug/kg | 320        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 58                | J               | ug/kg | 58         | J        | 1.0             | YES        | S4VEM            |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 610               |                 | ug/kg | 610        |          | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 530               |                 | ug/kg | 530        |          | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 260               |                 | ug/kg | 260        |          | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 270               |                 | ug/kg | 270        |          | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 470               | U               | ug/kg | 470        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 320               |                 | ug/kg | 320        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 240               |                 | ug/kg | 240        |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 130               | J               | ug/kg | 130        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 51                | J               | ug/kg | 51         | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 120               | J               | ug/kg | 120        | J        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 240               | U               | ug/kg | 240        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          | 960               | N               | ug/kg | 960        | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0B76        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-CS-145 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 11:35:00 |
| % Moisture:                 |                              | % Solids: 69.3          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 2.8               | J               | ug/kg | 2.8        | J        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 14                |                 | ug/kg | 14         |          | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 13                |                 | ug/kg | 13         |          | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 9.6               | U               | ug/kg | 9.6        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 310               |                 | ug/kg | 310        | D        | 5.0             | YES        | S4VEM            |
| Anthracene             | Target       | 61                |                 | ug/kg | 61         |          | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 540               | J               | ug/kg | 540        | ED       | 5.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 510               | J               | ug/kg | 510        | ED       | 5.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 240               |                 | ug/kg | 240        | D        | 5.0             | YES        | S4VEM            |
| Chrysene               | Target       | 250               |                 | ug/kg | 250        | D        | 5.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 300               |                 | ug/kg | 300        | D        | 5.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 110               |                 | ug/kg | 110        | D        | 5.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 230               |                 | ug/kg | 230        | D        | 5.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 140               |                 | ug/kg | 140        | D        | 5.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 48                |                 | ug/kg | 48         |          | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 150               |                 | ug/kg | 150        | D        | 5.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0BF7

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-148-01

pH:

Sample Date: 11/12/2020

Sample Time: 15:00:00

% Moisture:

% Solids: 78.7

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                                |                    |                         |                       |
|--------------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BF7           | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                    | % Solids: 78.7          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.0               | J               | ug/kg | 1.0        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 1.7               | J               | ug/kg | 1.7        | J        | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 22                | U               | ug/kg | 22         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 0.54              | J               | ug/kg | 0.54       | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 2.2               | U               | ug/kg | 2.2        | U        | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                                |                       |                         |                       |
|--------------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BF7           | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                   | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                       | % Solids: 78.7          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 85                | U               | ug/kg | 85         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 150               | J               | ug/kg | 150        | J        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 55                | J               | ug/kg | 55         | J        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 220               | U               | ug/kg | 220        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                                |                              |                         |                       |
|--------------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BF7           | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                          | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                              | % Solids: 78.7          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.5               | U               | ug/kg | 8.5        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 17                |                 | ug/kg | 17         |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 19                |                 | ug/kg | 19         |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 9.8               |                 | ug/kg | 9.8        |          | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 12                |                 | ug/kg | 12         |          | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 15                |                 | ug/kg | 15         |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 5.9               |                 | ug/kg | 5.9        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 11                |                 | ug/kg | 11         |          | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 7.9               |                 | ug/kg | 7.9        |          | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 2.6               | J               | ug/kg | 2.6        | J        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 9.1               |                 | ug/kg | 9.1        |          | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                                |                           |                         |                       |
|--------------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF7           | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-148-01 | pH:                       | Sample Date: 11/12/2020 | Sample Time: 15:00:00 |
| % Moisture:                    |                           | % Solids: 78.7          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 7.8               |                 | ug/kg | 7.8        | B        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 0.62              | J               | ug/kg | 0.62       | J        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 12                | U               | ug/kg | 12         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 6.1               | U               | ug/kg | 6.1        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                            |                           |                         |                       |
|----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BF8       | Method: Volatile Organics | Matrix: Water           | MA Number:            |
| Sample Location: NLR-TB-04 | pH: 1.0                   | Sample Date: 11/16/2020 | Sample Time: 16:00:00 |
| % Moisture:                |                           | % Solids: 0             |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

Sample Number: C0BG1

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: NLR-SS-168

pH:

Sample Date: 11/16/2020

Sample Time: 13:30:00

% Moisture:

% Solids: 79.1

| Analyte Name | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|--------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Aroclor-1016 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1221 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1232 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1242 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1248 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1254 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1260 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1262 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |
| Aroclor-1268 | Target       | 42                | U               | ug/kg | 42         | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                    |                         |                       |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Sample Number: C0BG1        | Method: Pesticides | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168 | pH:                | Sample Date: 11/16/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                    | % Solids: 79.1          |                       |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| beta-BHC            | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| delta-BHC           | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| gamma-BHC (Lindane) | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor          | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Aldrin              | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Heptachlor epoxide  | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan I        | Target       | 2.1               | U               | ug/kg | 2.1        | U        | 1.0             | YES        | S4VEM            |
| Dieldrin            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDE             | Target       | 1.1               | J               | ug/kg | 1.1        | J        | 1.0             | YES        | S4VEM            |
| Endrin              | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan II       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDD             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endosulfan Sulfate  | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 4,4-DDT             | Target       | 0.98              | J               | ug/kg | 0.98       | JP       | 1.0             | YES        | S4VEM            |
| Methoxychlor        | Target       | 21                | U               | ug/kg | 21         | U        | 1.0             | YES        | S4VEM            |
| Endrin ketone       | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Endrin Aldehyde     | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| cis-Chlordane       | Target       | 1.3               | J               | ug/kg | 1.3        | JP       | 1.0             | YES        | S4VEM            |
| trans-Chlordane     | Target       | 0.72              | J               | ug/kg | 0.72       | JP       | 1.0             | YES        | S4VEM            |
| Toxaphene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                       |                         |                       |
|-----------------------------|-----------------------|-------------------------|-----------------------|
| Sample Number: C0BG1        | Method: Semivolatiles | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168 | pH:                   | Sample Date: 11/16/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                       | % Solids: 79.1          |                       |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 84                | U               | ug/kg | 84         | U        | 1.0             | YES        | S4VEM            |
| Benzaldehyde                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenol                      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethyl)ether     | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2-Chlorophenol              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,2-oxybis(1-Chloropropane) | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acetophenone                | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Methylphenol              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitroso-di-n-propylamine  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachloroethane            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Nitrobenzene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Isophorone                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitrophenol               | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dimethylphenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-Chloroethoxy)methane  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dichlorophenol          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Naphthalene                 | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloroaniline             | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobutadiene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Caprolactam                 | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Chloro-3-methylphenol     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorocyclopentadiene   | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 2,4,6-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4,5-Trichlorophenol       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Biphenyl                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Chloronaphthalene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2-Nitroaniline              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dimethylphthalate           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,6-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene              | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitrophenol               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Dibenzofuran                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,4-Dinitrotoluene          | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Diethylphthalate            | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluorene                    | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Chlorophenyl-phenylether  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Nitroaniline              | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| 4,6-Dinitro-2-methylphenol  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| N-Nitrosodiphenylamine      | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 4-Bromophenyl-phenylether   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Hexachlorobenzene           | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Atrazine                    | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol           | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene                | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Anthracene                  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Di-n-butylphthalate        | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene               | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Pyrene                     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Butylbenzylphthalate       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 3,3-Dichlorobenzidine      | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene         | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Chrysene                   | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Bis(2-ethylhexyl)phthalate | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Di-n-octyl phthalate       | Target       | 420               | U               | ug/kg | 420        | U        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene             | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene     | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene       | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| 2,3,4,6-Tetrachlorophenol  | Target       | 210               | U               | ug/kg | 210        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                              |                         |                       |
|-----------------------------|------------------------------|-------------------------|-----------------------|
| Sample Number: C0BG1        | Method: Semivolatiles by SIM | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168 | pH:                          | Sample Date: 11/16/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                              | % Solids: 79.1          |                       |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| 2-Methylnaphthalene    | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthylene         | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Acenaphthene           | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluorene               | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Pentachlorophenol      | Target       | 8.4               | U               | ug/kg | 8.4        | U        | 1.0             | YES        | S4VEM            |
| Phenanthrene           | Target       | 1.6               | J               | ug/kg | 1.6        | J        | 1.0             | YES        | S4VEM            |
| Anthracene             | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Fluoranthene           | Target       | 4.2               |                 | ug/kg | 4.2        |          | 1.0             | YES        | S4VEM            |
| Pyrene                 | Target       | 4.5               |                 | ug/kg | 4.5        |          | 1.0             | YES        | S4VEM            |
| Benzo(a)anthracene     | Target       | 2.5               | J               | ug/kg | 2.5        | J        | 1.0             | YES        | S4VEM            |
| Chrysene               | Target       | 3.3               | J               | ug/kg | 3.3        | J        | 1.0             | YES        | S4VEM            |
| Benzo(b)fluoranthene   | Target       | 4.2               |                 | ug/kg | 4.2        |          | 1.0             | YES        | S4VEM            |
| Benzo(k)fluoranthene   | Target       | 1.4               | J               | ug/kg | 1.4        | J        | 1.0             | YES        | S4VEM            |
| Benzo(a)pyrene         | Target       | 2.9               | J               | ug/kg | 2.9        | J        | 1.0             | YES        | S4VEM            |
| Indeno(1,2,3-cd)pyrene | Target       | 2.2               | J               | ug/kg | 2.2        | J        | 1.0             | YES        | S4VEM            |
| Dibenzo(a,h)anthracene | Target       | 4.2               | U               | ug/kg | 4.2        | U        | 1.0             | YES        | S4VEM            |
| Benzo(g,h,i)perylene   | Target       | 3.0               | J               | ug/kg | 3.0        | J        | 1.0             | YES        | S4VEM            |
| Total Alkanes          | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                             |                           |                         |                       |
|-----------------------------|---------------------------|-------------------------|-----------------------|
| Sample Number: C0BG1        | Method: Volatile Organics | Matrix: Soil            | MA Number:            |
| Sample Location: NLR-SS-168 | pH:                       | Sample Date: 11/16/2020 | Sample Time: 13:30:00 |
| % Moisture:                 |                           | % Solids: 79.1          |                       |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloromethane                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Vinyl chloride                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromomethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroethane                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichlorofluoromethane                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethene                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Acetone                               | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Carbon disulfide                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl Acetate                        | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylene chloride                    | Target       | 5.7               | U               | ug/kg | 5.1        | JB       | 1.0             | YES        | S4VEM            |
| trans-1,2-Dichloroethene              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methyl tert-butyl Ether               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,2-Dichloroethene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Butanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Bromochloromethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chloroform                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,1-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Cyclohexane                           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Carbon tetrachloride                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Benzene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloroethane                    | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Trichloroethene                       | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Methylcyclohexane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichloropropane                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromodichloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| cis-1,3-Dichloropropene               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 4-Methyl-2-pentanone                  | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Toluene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| trans-1,3-Dichloropropene             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2-Trichloroethane                 | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Tetrachloroethene                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 2-Hexanone                            | Target       | 11                | U               | ug/kg | 11         | U        | 1.0             | YES        | S4VEM            |
| Dibromochloromethane                  | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromoethane                     | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Chlorobenzene                         | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Ethylbenzene                          | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| o-xylene                              | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| m,p-Xylene                            | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Styrene                               | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Bromoform                             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Isopropylbenzene                      | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,3-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,4-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dichlorobenzene                   | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,4-trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| 1,2,3-Trichlorobenzene                | Target       | 5.7               | U               | ug/kg | 5.7        | U        | 1.0             | YES        | S4VEM            |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PBLK03 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDE             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin              | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                    |               |              |
|-----------------------|--------------------|---------------|--------------|
| Sample Number: PLCS03 | Method: Pesticides | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                | Sample Date:  | Sample Time: |
| % Moisture:           |                    | % Solids: 100 |              |

| Analyte Name        | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| alpha-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| beta-BHC            | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| delta-BHC           | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| gamma-BHC (Lindane) | Spike        | 1.5               | J               | ug/kg | 1.5        | J        | 1.0             | YES        | NV               |
| Heptachlor          | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Aldrin              | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Heptachlor epoxide  | Spike        | 1.9               |                 | ug/kg | 1.9        |          | 1.0             | YES        | NV               |
| Endosulfan I        | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| Dieldrin            | Spike        | 3.7               |                 | ug/kg | 3.7        |          | 1.0             | YES        | NV               |
| 4,4-DDE             | Spike        | 3.6               |                 | ug/kg | 3.6        |          | 1.0             | YES        | NV               |
| Endrin              | Spike        | 3.5               |                 | ug/kg | 3.5        |          | 1.0             | YES        | NV               |
| Endosulfan II       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 4,4-DDD             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endosulfan Sulfate  | Spike        | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| 4,4-DDT             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Methoxychlor        | Target       | 17                | U               | ug/kg | 17         | U        | 1.0             | YES        | NV               |
| Endrin ketone       | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Endrin Aldehyde     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| cis-Chlordane       | Target       | 1.7               | U               | ug/kg | 1.7        | U        | 1.0             | YES        | NV               |
| trans-Chlordane     | Spike        | 1.8               |                 | ug/kg | 1.8        |          | 1.0             | YES        | NV               |
| Toxaphene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                       |               |              |
|-----------------------|-----------------------|---------------|--------------|
| Sample Number: SBLK50 | Method: Semivolatiles | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                   | Sample Date:  | Sample Time: |
| % Moisture:           |                       | % Solids: 100 |              |

| Analyte Name                | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|-----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| 1,4-Dioxane                 | Target       | 67                | U               | ug/kg | 67         | U        | 1.0             | YES        | NV               |
| Benzaldehyde                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenol                      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethyl)ether     | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2-Chlorophenol              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,2-oxybis(1-Chloropropane) | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acetophenone                | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Methylphenol              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitroso-di-n-propylamine  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachloroethane            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Nitrobenzene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Isophorone                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitrophenol               | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dimethylphenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-Chloroethoxy)methane  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dichlorophenol          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Naphthalene                 | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chloroaniline             | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Hexachlorobutadiene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Caprolactam                 | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Chloro-3-methylphenol     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorocyclopentadiene   | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 2,4,6-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4,5-Trichlorophenol       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,1-Biphenyl                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Chloronaphthalene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2-Nitroaniline              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dimethylphthalate           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,6-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Acenaphthylene              | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Acenaphthene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4-Nitrophenol               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Dibenzofuran                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,4-Dinitrotoluene          | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Diethylphthalate            | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluorene                    | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Chlorophenyl-phenylether  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Nitroaniline              | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| 4,6-Dinitro-2-methylphenol  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| N-Nitrosodiphenylamine      | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 1,2,4,5-Tetrachlorobenzene  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 4-Bromophenyl-phenylether   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Hexachlorobenzene           | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Atrazine                    | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol           | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Phenanthrene                | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Anthracene                  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

| Analyte Name               | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|----------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Carbazole                  | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Di-n-butylphthalate        | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Fluoranthene               | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Pyrene                     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Butylbenzylphthalate       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 3,3-Dichlorobenzidine      | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene         | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Chrysene                   | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Bis(2-ethylhexyl)phthalate | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Di-n-octyl phthalate       | Target       | 330               | U               | ug/kg | 330        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene             | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene     | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene       | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| 2,3,4,6-Tetrachlorophenol  | Target       | 170               | U               | ug/kg | 170        | U        | 1.0             | YES        | NV               |
| Total Alkanes              | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                              |               |              |
|-----------------------|------------------------------|---------------|--------------|
| Sample Number: SBLK51 | Method: Semivolatiles by SIM | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                          | Sample Date:  | Sample Time: |
| % Moisture:           |                              | % Solids: 100 |              |

| Analyte Name           | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Naphthalene            | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| 2-Methylnaphthalene    | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthylene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Acenaphthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluorene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pentachlorophenol      | Target       | 6.7               | U               | ug/kg | 6.7        | U        | 1.0             | YES        | NV               |
| Phenanthrene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Anthracene             | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Fluoranthene           | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Pyrene                 | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)anthracene     | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Chrysene               | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(b)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(k)fluoranthene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(a)pyrene         | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Indeno(1,2,3-cd)pyrene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Dibenzo(a,h)anthracene | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |
| Benzo(g,h,i)perylene   | Target       | 3.3               | U               | ug/kg | 3.3        | U        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK03 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.3               | J               | ug/kg | 2.3        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 1.8               | J               | ug/kg | 1.8        | J        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK05 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 4.4               | J               | ug/kg | 4.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK06 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK08 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 0.66              | J               | ug/kg | 0.66       | J        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 2.4               | J               | ug/kg | 2.4        | J        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |



# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                       |                           |               |              |
|-----------------------|---------------------------|---------------|--------------|
| Sample Number: VBLK62 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:      | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:           |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK01 | Method: Volatile Organics | Matrix: Soil  | MA Number:   |
| Sample Location:       | pH:                       | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 100 |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 3.2               | J               | ug/kg | 3.2        | JB       | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/kg | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/kg | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/kg |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

|                        |                           |               |              |
|------------------------|---------------------------|---------------|--------------|
| Sample Number: VHBLK02 | Method: Volatile Organics | Matrix: Water | MA Number:   |
| Sample Location:       | pH: 1.0                   | Sample Date:  | Sample Time: |
| % Moisture:            |                           | % Solids: 0   |              |

| Analyte Name                          | Analyte Type | Validation Result | Validation Flag | Units | Lab Result | Lab Flag | Dilution Factor | Reportable | Validation Level |
|---------------------------------------|--------------|-------------------|-----------------|-------|------------|----------|-----------------|------------|------------------|
| Dichlorodifluoromethane               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloromethane                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Vinyl chloride                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromomethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroethane                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichlorofluoromethane                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethene                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Acetone                               | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Carbon disulfide                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl Acetate                        | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylene chloride                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,2-Dichloroethene              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methyl tert-butyl Ether               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,2-Dichloroethene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Butanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Bromochloromethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chloroform                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,1-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Cyclohexane                           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Carbon tetrachloride                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Benzene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloroethane                    | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Trichloroethene                       | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Methylcyclohexane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichloropropane                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromodichloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| cis-1,3-Dichloropropene               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 4-Methyl-2-pentanone                  | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Toluene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| trans-1,3-Dichloropropene             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2-Trichloroethane                 | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Tetrachloroethene                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 2-Hexanone                            | Target       | 10                | U               | ug/L  | 10         | U        | 1.0             | YES        | NV               |
| Dibromochloromethane                  | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromoethane                     | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Chlorobenzene                         | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Ethylbenzene                          | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| o-xylene                              | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| m,p-Xylene                            | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Styrene                               | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Bromoform                             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Isopropylbenzene                      | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,1,2,2-Tetrachloroethane             | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,3-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,4-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dichlorobenzene                   | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2-Dibromo-3-chloropropane           | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,4-trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| 1,2,3-Trichlorobenzene                | Target       | 5.0               | U               | ug/L  | 5.0        | U        | 1.0             | YES        | NV               |
| Total Alkanes                         | TIC          |                   | N               | ug/L  |            | N        | 1.0             | YES        | NV               |

# Sample Summary Report

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Project Name: NORWOOD LANDFILL Project

GroupID: 49167/EPW14030/C0B11

Lab Name: Chemtech Consulting Group

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